

**Annual Report on Research
FY 2016**



College of Sciences and Mathematics

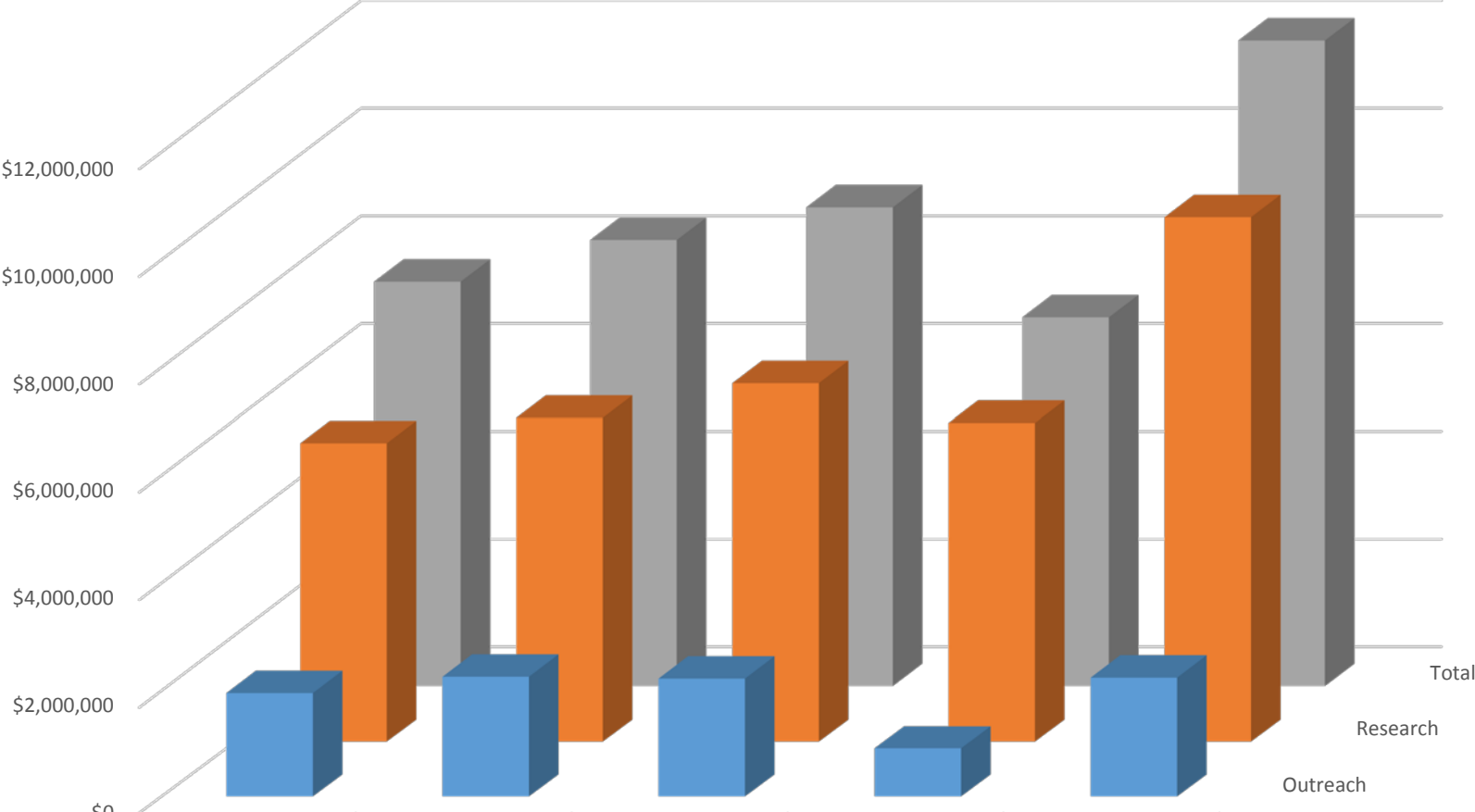
Office of the Associate Dean for Research

Raymond Henry, Ph.D.

Amy Thomas

Courtney Thomas

Extramural Funding COSAM FY 2012- 2016



	2012	2013	2014	2015	2016
■ Outreach	\$1,954,296	\$2,258,089	\$2,223,665	\$915,075	\$2,241,657
■ Research	\$5,551,293	\$6,021,581	\$6,662,918	\$5,927,531	\$9,746,994
■ Total	\$7,505,589	\$8,279,670	\$8,886,583	\$6,842,606	\$11,988,650

Extramural Research Funding
COSAM Departments
FY 2016

\$3,500,000

\$3,000,000

\$2,500,000

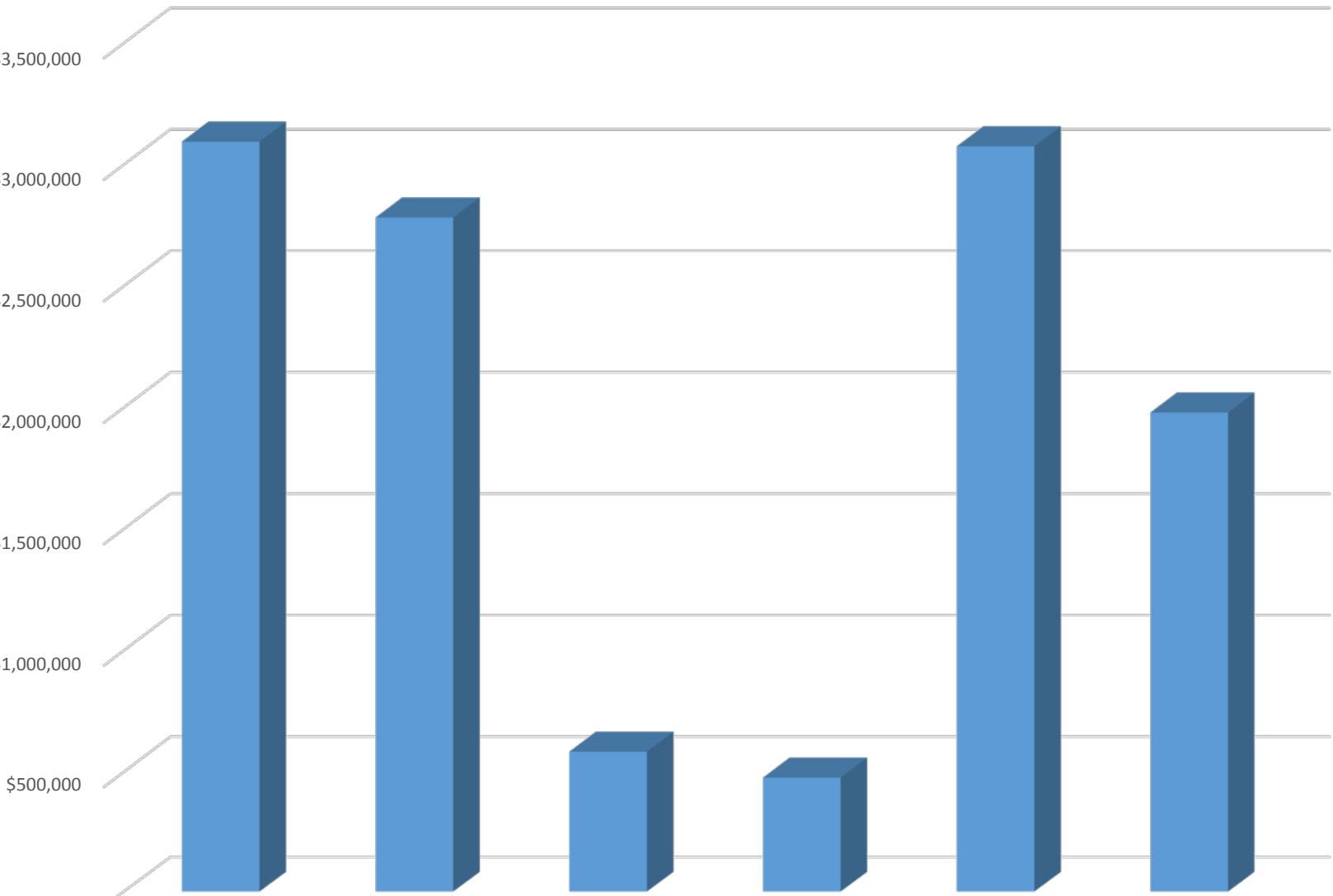
\$2,000,000

\$1,500,000

\$1,000,000

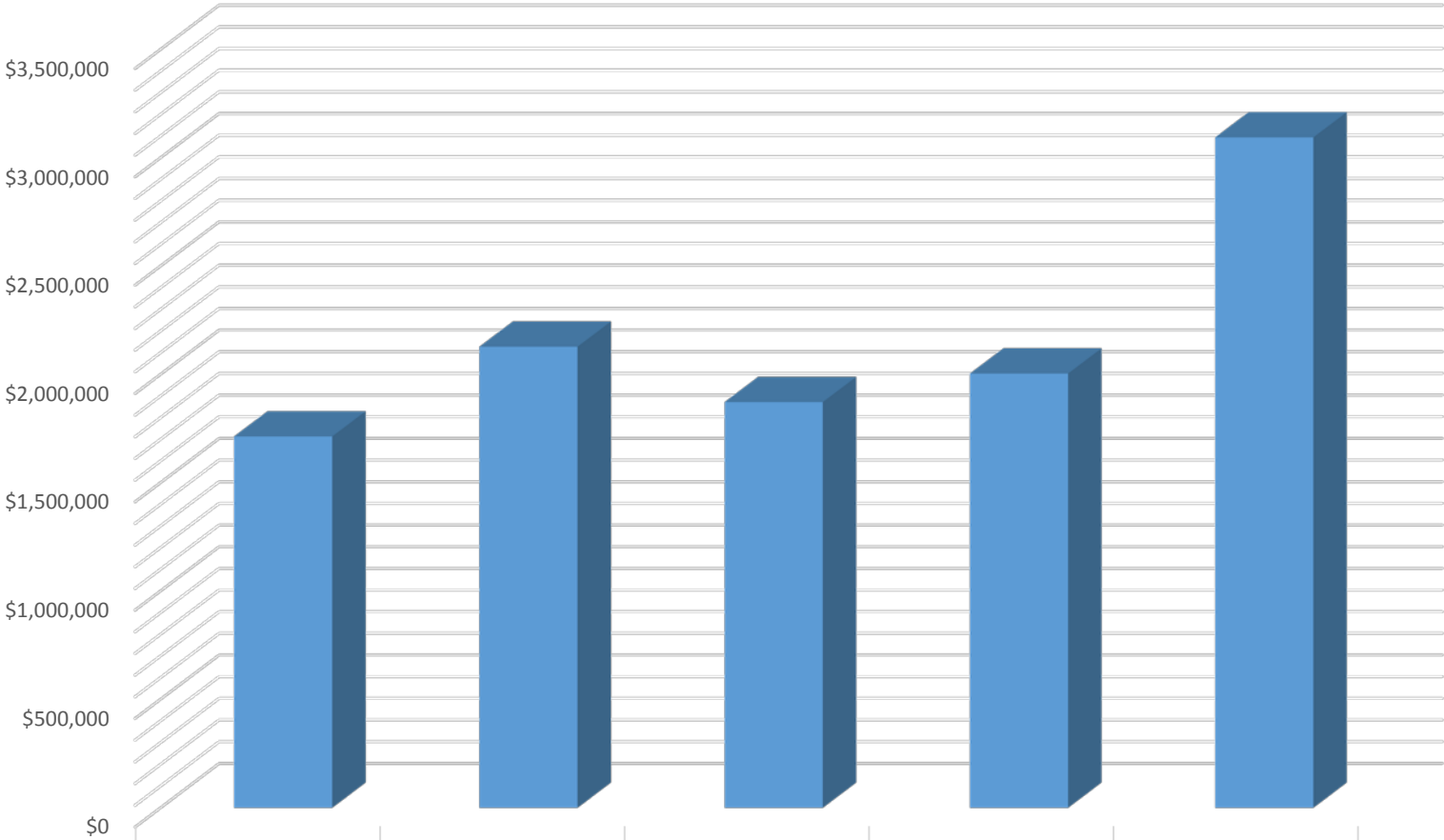
\$500,000

\$0



	Biological Sciences	Chemistry/Biochem	Geosciences	Math/Statistics	Physics	Outreach
Funding	\$3,094,151	\$2,781,962	\$582,857	\$476,088	\$3,074,577	\$1,979,017

Amount of New Grant Dollars Biological Sciences FY 12-16



	2012	2013	2014	2015	2016
■ Amount of New Grant Dollars in FY	\$1,713,491	\$2,127,778	\$1,872,152	\$2,003,887	\$3,094,151

■ Amount of New Grant Dollars in FY

			Biological Sciences Research Grants with New Dollars in FY16			
Armbruster, Jonathan W.	PI	Biological Sciences	NatureServe - Jean Lafitte National Park accuracy assessment	NatureServe	100.00%	\$26,684.00
Armbruster, Jonathan W.	PI	Biological Sciences	Addition to planning level survey of Redstone Arsenal for at-risk species and ecologically significant communities - Hepetofauna Addition	DOD - US Army - Redstone Arsenal	75.00%	\$21,750.00
Armbruster, Jonathan W.	PI	Biological Sciences	Turkey Creek survey for the Flattened Musk Turtle	USDI - FWS - US Dept of the Interior - Fish & Wildlife Service	50.00%	\$2,500.00
Armbruster, Jonathan W.	PI	Biological Sciences	Planning level survey of Redstone Arsenal for at-risk species and ecologically significant communities	DOD - US Army - Redstone Arsenal	50.00%	\$85,000.00
Barbour, Michael S	COPI	Biological Sciences	Addition to planning level survey of Redstone Arsenal for at-risk species and ecologically significant communities - Hepetofauna Addition	DOD - US Army - Redstone Arsenal	5.00%	\$1,450.00
Best, Troy L.	PI	Biological Sciences	Monitoring populations of Lesser Prairie Chickens on BLM administered lands in SE New Mexico	USDI - Bureau of Land Management	100.00%	\$25,000.00
Bond, Jason E.	PI	Biological Sciences	Carolina & Mississippi Gopher Frog status survey	ADCNR-Alabama Dept of Conservation & Natural Resources	50.00%	\$10,000.00

Bond, Jason E.	PI	Biological Sciences	Hellbender status survey in Alabama using standard methods and environmental DNA (eDNA)	ADCNR-Alabama Dept of Conservation & Natural Resources	50.00%	\$17,521.00
Bond, Jason E.	COPI	Biological Sciences	Planning level survey of Redstone Arsenal for at-risk species and ecologically significant communities	DOD - US Army - Redstone Arsenal	25.00%	\$42,500.00
Bond, Jason E.	PI	Biological Sciences	Collaborative research: A comparative systems approach to complex animal signaling	NSF-National Science Foundation	100.00%	\$180,000.00
Bond, Jason E.	PI	Biological Sciences	DNA sequences for research	Smithsonian Institution	100.00%	\$20,000.00
Dobson, F. Stephen	PI	Biological Sciences	NSF Graduate Research Fellows Program (GRFP)	NSF-National Science Foundation	100.00%	\$21,730.00
Dobson, F. Stephen	PI	Biological Sciences	NSF Graduate Research Fellows Program (GRFP)-CORREIA	NSF-National Science Foundation	100.00%	\$9,865.00
Dobson, F. Stephen	PI	Biological Sciences	NSF Graduate research fellows program (GRFP)	NSF-National Science Foundation	100.00%	\$37,135.00
Feminella, John W.	PI	Biological Sciences	Black Warrior waterdog, flattened musk turtle, streak sorus fern, and Kral's water plantain studies in the Bankhead National Forest, AL	USDA - Forest Service	100.00%	\$42,168.00
Godwin, James C.	COPI	Biological Sciences	Addition to planning level survey of Redstone Arsenal for at-risk species and ecologically significant communities - Hepetofauna Addition	DOD - US Army - Redstone Arsenal	5.00%	\$1,450.00
Godwin, James C.	COPI	Biological Sciences	Turkey Creek survey for the Flattened Musk Turtle	USDI - FWS - US Dept of the Interior - Fish & Wildlife Service	50.00%	\$2,500.00
Godwin, James C.	COPI	Biological Sciences	Reintroduction of the Eastern Indigo Snake onto Conecuh National Forest 2015-2020	ADCNR-Alabama Dept of Conservation & Natural Resources	40.00%	\$30,011.60

Godwin, James C.	COPI	Biological Sciences	Carolina & Mississippi Gopher Frog status survey	ADCNR-Alabama Dept of Conservation & Natural Resources	50.00%	\$10,000.00
Goertzen, Leslie Richard	PI	Biological Sciences	REU site: Diversifying undergraduate participation in computational biology - 1560115	NSF-National Science Foundation	100.00%	\$177,400.00
Goertzen, Leslie Richard	PI	Biological Sciences	REU site: Diversifying undergraduate participation in computational biology - 1560115	NSF-National Science Foundation	100.00%	\$48,286.00
Halanych, Kenneth M.	PI	Biological Sciences	Elucidating the early history of metazoans	NASA - Goddard Space Flight Center	100.00%	\$141,902.00
Hansen, Curtis J.	COPI	Biological Sciences	Addition to planning level survey of Redstone Arsenal for at-risk species and ecologically significant communities - Hepetofauna Addition	DOD - US Army - Redstone Arsenal	5.00%	\$1,450.00
Hood, Wendy R.	PI	Biological Sciences	NSF Graduate Research Fellows Program (GRFP)- JOSEFSON	NSF-National Science Foundation	100.00%	\$46,000.00
Hood, Wendy R.	PI	Biological Sciences	Effects of mitohormesis on reproduction and longevity	NSF-National Science Foundation	100.00%	\$199,026.00
Hood, Wendy R.	PI	Biological Sciences	The mechanistic basis for improved metabolic health in females following lactation	DHHS-PHS-NIH-NICHD-National Institute of Child Health and Human Development	50.00%	\$36,630.00
Hood, Wendy R.	PI	Biological Sciences	Effects of mitohormesis on reproduction and longevity	NSF-National Science Foundation	100.00%	\$3,975.00
Liles, Mark R.	COPI	Biological Sciences	Emerging virulent aeromonas hydrophila (Vah): Research to understand the pathogen and its management through field trials in West Alabama - Year 2	Alabama Dept. of Agriculture and Industries	25.00%	\$9,000.00
Liles, Mark R.	PI	Biological Sciences	Evaluation of an attenuated aeromonas hydrophila vaccine using an immersion disease model	Merck Animal Health (formerly Intervet)	50.00%	\$25,000.00

Liles, Mark R.	COPI	Biological Sciences	Microbial studies of corn and soybean agricultural systems	Ag Spectrum	50.00%	\$21,000.00
Liles, Mark R.	COPI	Biological Sciences	Effect of dietary phytic acid reduction on catfish susceptibility & etiology of virulent aeromonas hydrophila	USDA-NIFA-National Institute of Food & Agriculture	40.00%	\$99,092.80
Liles, Mark R.	PI	Biological Sciences	INBioPharm: Integrated novel natural product discovery and production platform for accelerated Biopharmaceutical innovation from microbial biodiversity	SINTEF	100.00%	\$82,327.00
Liles, Mark R.	COPI	Biological Sciences	Effect of dietary phytic acid reduction on catfish susceptibility & etiology of virulent aeromonas hydrophila	USDA-NIFA-National Institute of Food & Agriculture	40.00%	\$25,605.60
Liles, Mark R.	PI	Biological Sciences	Probiotic and vaccine development to benefit the Alabama catfish industry	State of Alabama-Innovation Fund	20.00%	\$49,546.40
Liles, Mark R.	PI	Biological Sciences	Evaluation of antimicrobial activity for rhizobacteria against ESKAPE pathogens	Agricen Sciences	100.00%	\$12,725.00
Locy, Robert D.	PI	Biological Sciences	Building a disease related gene expression catalog that can be used for disease diagnosis and genetic improvement	Alabama Soybean Producers Association	60.00%	\$8,400.00
Schotz, Alfred	COPI	Biological Sciences	Addition to planning level survey of Redstone Arsenal for at-risk species and ecologically significant communities - Hepetofauna Addition	DOD - US Army - Redstone Arsenal	5.00%	\$1,450.00
Schotz, Alfred	PI	Biological Sciences	CESU: Range-wide survey and status assessment of Lindera subcoriacea (bog spicebush)	USDI - FWS - US Dept of the Interior - Fish & Wildlife Service	100.00%	\$25,000.00
Steen, David A.	PI	Biological Sciences	Snake repellent active ingredient screening	The Scott's Company and Subsidiaries	100.00%	\$17,907.00
Steen, David A.	COPI	Biological Sciences	Planning level survey of Redstone Arsenal for at-risk species and ecologically significant communities	DOD - US Army - Redstone Arsenal	25.00%	\$42,500.00

Steen, David A.	PI	Biological Sciences	Reintroduction of the Eastern Indigo Snake onto Conecuh National Forest 2015-2020	ADCNR-Alabama Dept of Conservation & Natural Resources	60.00%	\$45,017.40
Steen, David A.	COPI	Biological Sciences	Addition to planning level survey of Redstone Arsenal for at-risk species and ecologically significant communities - Hepetofauna Addition	DOD - US Army - Redstone Arsenal	5.00%	\$1,450.00
Suh, Sang-Jin	PI	Biological Sciences	Development of a multiplex biosensor system with nanobiomolecular probes for rapid detection of common foodborne bacterial pathogens	USDA-NIFA-National Institute of Food & Agriculture	100.00%	\$233,291.00
Wada, Haruka	PI	Biological Sciences	CAREER: Proteostasis to allostasis: Integration of cellular- and organismal-level stress responses	NSF-National Science Foundation	100.00%	\$2,500.00
Wada, Haruka	PI	Biological Sciences	CAREER: Proteostasis to allostasis: Integration of cellular-and organismal-level stress responses	NSF-National Science Foundation	100.00%	\$604,626.00
Wada, Haruka	PI	Biological Sciences	NSF Graduate Research Fellows Program (GRFP)	NSF-National Science Foundation	100.00%	\$17,833.00
Warner, Daniel A.	PI	Biological Sciences	Climate change and environmental gender determination in a geographically-widespread species	Iowa State University	100.00%	\$17,605.00
Warner, Daniel A.	PI	Biological Sciences	Collaborative research: Urban adaptation and its role in the success of biological invasion in Anolis lizards	NSF-National Science Foundation	100.00%	\$235,844.00
Warner, Daniel A.	PI	Biological Sciences	NSF Graduate Research Fellows Program (GRFP)-CATES	NSF-National Science Foundation	100.00%	\$46,000.00
Warner, Daniel A.	PI	Biological Sciences	NSF Graduate Research Fellows Program (GRFP)	NSF-National Science Foundation	100.00%	\$17,834.00
			Biological Sciences Research Totals			\$2,883,488.00

			Biological Sciences Instruction Grants with New Dollars in FY16			
Wit, Lawrence C.	PI	Biological Sciences	Rural Medicine Program	Rural Medicine Program	100%	\$131,050.00
			Biological Sciences Outreach Grants with New Dollars in FY16			
Armbruster, Jonathan W.	PI	Biological Sciences	Environmental education at the Robert G. Wehle Nature Center	ADCNR-Alabama Dept of Conservation & Natural Resources	50%	\$10,500.00
Barbour, Michael S	CoPI	Biological Sciences	Continued implementation of the Safe Harbor Plan for the endangered Red-cockaded Woodpecker	ADCNR-Alabama Dept of Conservation & Natural Resources	50%	\$5,000.00
Bond, Jason E.	PI	Biological Sciences	Wiregrass wildlife wonders	Wiregrass R C & D Council	10%	\$183.30
Bond, Jason E.	PI	Biological Sciences	Continued implementation of the Safe Harbor Plan for the endangered Red-cockaded Woodpecker	ADCNR-Alabama Dept of Conservation & Natural Resources	50%	\$5,000.00
Smith, Danita Rae	PI	Biological Sciences	Town Creek watershed restoration at Auburn University	National Fish & Wildlife Foundation	100%	\$17,000.00
Smith, Danita Rae	PI	Biological Sciences	Town Creek watershed restoration at Auburn University	National Fish & Wildlife Foundation	100%	\$297,771.00

Stone, Margaret Kay	PI	Biological Sciences	Environmental education at the Robert G. Wehle Nature Center	ADCNR-Alabama Dept of Conservation & Natural Resources	50%	\$10,500.00
Stone, Margaret Kay	PI	Biological Sciences	Wiregrass wildlife wonders	Wiregrass R C & D Council	90%	\$1,649.00
			Biological Sciences Outreach Totals			\$79,613.00
			Biological Sciences Totals			\$3,094,151.00

PROPOSALS FOR FY 2016 FOR DBS

CF#	PI NAME	PI/COPI	% CREDIT	DEPARTMENT	BUDGET AMOUNT
0339-16	Seibenhener, Michael Lamar	PI	100.00%	Biological Sciences	\$451,249.00
0439-16	Suh, Sang-Jin	COPI	33.33%	Biological Sciences	\$33,328.33
0556-16	Steen, David A.	PI	100.00%	Biological Sciences	\$151,168.00
0557-16	Wada, Haruka	PI	100.00%	Biological Sciences	\$1,018,132.00
0656-16	Bond, Jason E.	PI	50.00%	Biological Sciences	\$50,959.00
0656-16	Godwin, James C.	COPI	50.00%	Biological Sciences	\$50,959.00
0674-16	Goertzen, Leslie Richard	PI	100.00%	Biological Sciences	\$337,575.00
0847-16	Seibenhener, Michael Lamar	PI	100.00%	Biological Sciences	\$401,159.00
0861-16	Bond, Jason E.	PI	50.00%	Biological Sciences	\$40,091.50
0861-16	Godwin, James C.	COPI	50.00%	Biological Sciences	\$40,091.50
0899-16	Armbruster, Jonathan W.	PI	100.00%	Biological Sciences	\$3,000.00
0915-16	Helms, Brian	PI	50.00%	Biological Sciences	\$55,000.00
0915-16	Feminella, John W.	COPI	50.00%	Biological Sciences	\$55,000.00
1101-16	Halanych, Kenneth M.	PI	50.00%	Biological Sciences	\$333,908.50
1101-16	Brannock, Pamela	COPI	50.00%	Biological Sciences	\$333,908.50
1112-16	Warner, Daniel A.	PI	100.00%	Biological Sciences	\$12,720.00
1265-16	Bond, Jason E.	PI	50.00%	Biological Sciences	\$63,451.00
1265-16	Godwin, James C.	COPI	50.00%	Biological Sciences	\$63,451.00
1266-16	Steen, David A.	PI	33.34%	Biological Sciences	\$37,407.81
1266-16	Barbour, Michael S	COPI	33.33%	Biological Sciences	\$37,396.59
1266-16	Schotz, Alfred	COPI	33.33%	Biological Sciences	\$37,396.59
1280-16	Armbruster, Jonathan W.	PI	50.00%	Biological Sciences	\$5,000.00
1280-16	Barbour, Michael S	COPI	50.00%	Biological Sciences	\$5,000.00
1331-16	Steen, David A.	PI	100.00%	Biological Sciences	\$29,406.00
1336-16	Steen, David A.	PI	100.00%	Biological Sciences	\$26,421.00
1337-16	Steen, David A.	PI	100.00%	Biological Sciences	\$35,398.00
1338-16	Steen, David A.	PI	100.00%	Biological Sciences	\$26,421.00
1356-16	Bond, Jason E.	PI	50.00%	Biological Sciences	\$17,464.00
1356-16	Godwin, James C.	COPI	50.00%	Biological Sciences	\$17,464.00
1357-16	Bond, Jason E.	PI	50.00%	Biological Sciences	\$11,611.00
1357-16	Godwin, James C.	COPI	50.00%	Biological Sciences	\$11,611.00

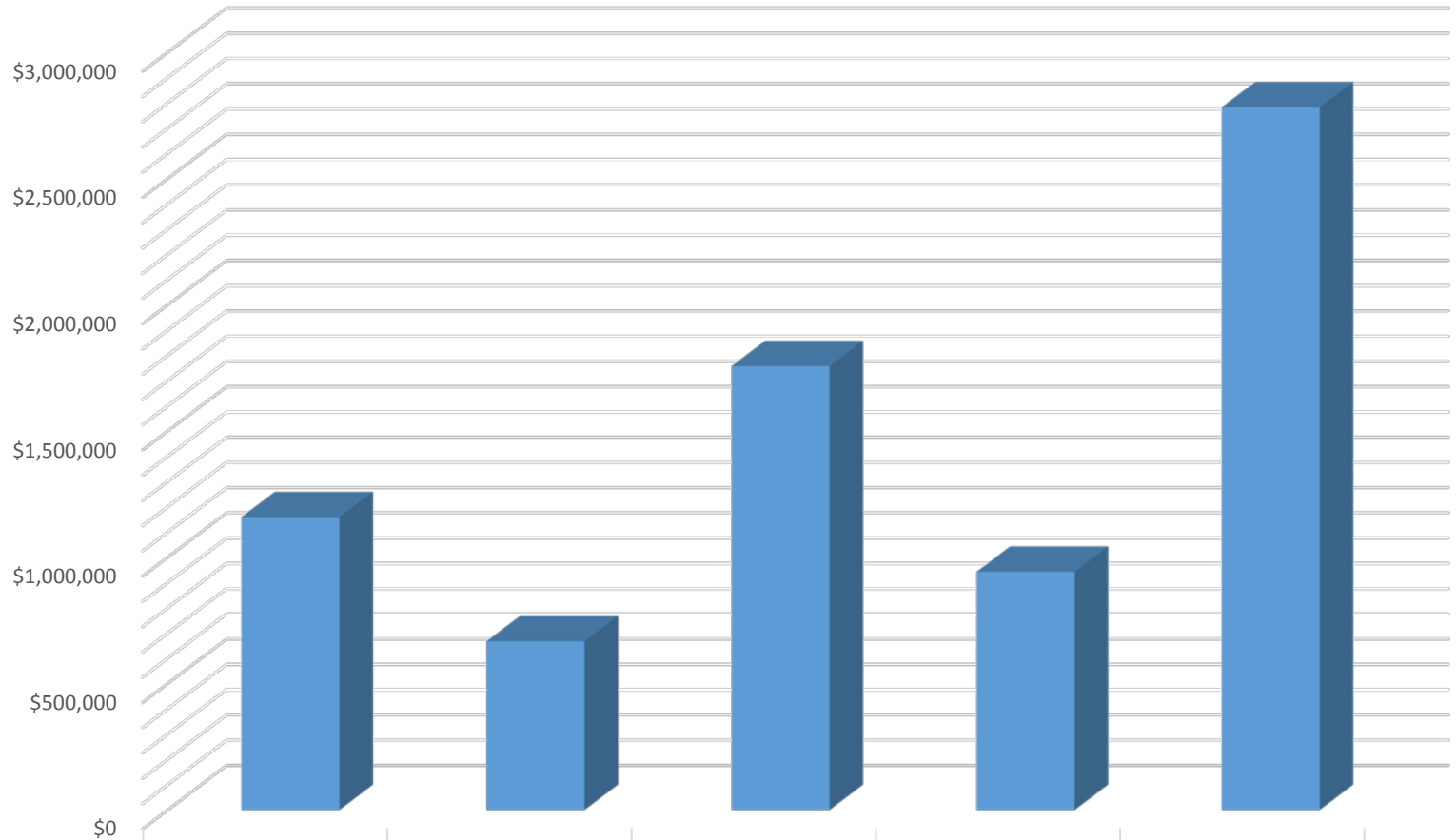
1358-16	Armbruster, Jonathan W.	PI	50.00%	Biological Sciences	\$12,142.00
1358-16	Godwin, James C.	COPI	50.00%	Biological Sciences	\$12,142.00
1429-16	Bond, Jason E.	PI	100.00%	Biological Sciences	\$420,000.00
1435-16	Bond, Jason E.	PI	50.00%	Biological Sciences	\$4,997.00
1435-16	Godwin, James C.	COPI	50.00%	Biological Sciences	\$4,997.00
1436-16	Helms, Brian	PI	33.34%	Biological Sciences	\$8,312.66
1436-16	Whelan, Nathan	COPI	33.33%	Biological Sciences	\$8,310.17
1436-16	Halanych, Kenneth M.	COPI	33.33%	Biological Sciences	\$8,310.17
1491-16	Helms, Brian	COPI	50.00%	Biological Sciences	\$12,480.00
1541-16	Godwin, James C.	COPI	25.00%	Biological Sciences	\$7,603.25
1541-16	Steen, David A.	COPI	25.00%	Biological Sciences	\$7,603.25
1572-16	Halanych, Kenneth M.	PI	50.00%	Biological Sciences	\$128,934.50
1572-16	Brannock, Pamela	COPI	50.00%	Biological Sciences	\$128,934.50
1634-16	Bond, Jason E.	PI	50.00%	Biological Sciences	\$10,000.00
1634-16	Godwin, James C.	COPI	50.00%	Biological Sciences	\$10,000.00
1635-16	Bond, Jason E.	PI	50.00%	Biological Sciences	\$15,000.00
1635-16	Godwin, James C.	COPI	50.00%	Biological Sciences	\$15,000.00
1658-16	Graze, Rita	PI	100.00%	Biological Sciences	\$1,470,243.00
1668-16	Liles, Mark R.	PI	33.34%	Biological Sciences	\$38,103.95
1668-16	Halanych, Kenneth M.	COPI	33.33%	Biological Sciences	\$38,092.52
1668-16	Goertzen, Leslie Richard	COPI	33.33%	Biological Sciences	\$38,092.52
1708-16	Hill, Geoffrey	PI	100.00%	Biological Sciences	\$2,985,439.00
1714-16	Liles, Mark R.	COPI	33.33%	Biological Sciences	\$399,203.08
1742-16	Liles, Mark R.	PI	33.34%	Biological Sciences	\$379,160.82
1742-16	Rashotte, Aaron M.	COPI	33.33%	Biological Sciences	\$379,047.09
1783-16	Armbruster, Jonathan W.	PI	50.00%	Biological Sciences	\$2,500.50
1783-16	Godwin, James C.	COPI	50.00%	Biological Sciences	\$2,500.50
1862-16	Schotz, Alfred	PI	100.00%	Biological Sciences	\$25,000.00
1928-16	Cobine, Paul A.	PI	100.00%	Biological Sciences	\$1,691,035.00
1961-16	Armbruster, Jonathan W.	PI	50.00%	Biological Sciences	\$7,500.00
1961-16	Schotz, Alfred	COPI	50.00%	Biological Sciences	\$7,500.00
1962-16	Armbruster, Jonathan W.	PI	50.00%	Biological Sciences	\$7,500.00
1962-16	Schotz, Alfred	COPI	50.00%	Biological Sciences	\$7,500.00
2007-16	Liles, Mark R.	COPI	33.33%	Biological Sciences	\$166,650.00

2114-16	Helms, Brian	PI	20.00%	Biological Sciences	\$296,674.60
2114-16	Godwin, James C.	COPI	20.00%	Biological Sciences	\$296,674.60
2114-16	Barbour, Michael S	COPI	20.00%	Biological Sciences	\$296,674.60
2114-16	Halanych, Kenneth M.	COPI	20.00%	Biological Sciences	\$296,674.60
2183-16	Stevison, Laurie	PI	100.00%	Biological Sciences	\$142,660.00
2216-16	Armbruster, Jonathan W.	PI	100.00%	Biological Sciences	\$673,116.00
2217-16	Stevison, Laurie	PI	33.34%	Biological Sciences	\$295,231.37
2217-16	Graze, Rita	COPI	33.33%	Biological Sciences	\$295,142.82
2220-16	Oaks, Jamie Richard	PI	100.00%	Biological Sciences	\$551,169.00
2221-16	Armbruster, Jonathan W.	PI	100.00%	Biological Sciences	\$931,466.00
2242-16	Hill, Geoffrey	PI	50.00%	Biological Sciences	\$463,359.50
2242-16	Schwartz, Tonia S.	COPI	50.00%	Biological Sciences	\$463,359.50
2281-16	Rashotte, Aaron M.	PI	100.00%	Biological Sciences	\$500,000.00
2315-16	Suh, Sang-Jin	COPI	50.00%	Biological Sciences	\$249,999.50
2344-16	Steen, David A.	PI	100.00%	Biological Sciences	\$160,363.00
2349-16	Liles, Mark R.	PI	100.00%	Biological Sciences	\$113,996.00
2655-16	Schwartz, Elizabeth H	COPI	33.33%	Biological Sciences	\$146,372.69
2669-16	Steen, David A.	PI	100.00%	Biological Sciences	\$1,522,750.00
2690-16	Rashotte, Aaron M.	PI	100.00%	Biological Sciences	\$417,641.00

**Budget amount based on percentage split from total proposed budget amount

***Highlighted proposals originated in other colleges

Amount of New Grant Dollars Chemistry & Biochemistry FY 12-16



■ Amount of New Grant Dollars in FY

2012
\$1,158,626

2013
\$666,508

2014
\$1,756,451

2015
\$941,916

2016
\$2,781,962

■ Amount of New Grant Dollars in FY

Chemistry & Biochemistry Research Grants with New Dollars in FY16

Duin, Eduardus C.	PI	Chemistry & BioChemistry	Collaborative Research: Understanding electron bifurcation in methanogenic archaea	NSF-National Science Foundation	100.00%	\$10,000.00
Duin, Eduardus C.	PI	Chemistry & BioChemistry	Iron-sulfur clusters in the evolution of the enzymatic sythesis of RNA	University of Arkansas	100.00%	\$32,091.00
Easley, Christopher J.	PI	Chemistry & BioChemistry	Mouse-on-a-chip systems to evaluate pancreas-adipose tissue dynamics in vitro	DHHS PHS-NIH-NIDDK-National Inst for Diabetes, Digestive & Kidney Diseases	88.00%	\$322,075.60
Easley, Christopher J.	PI	Chemistry & BioChemistry	Cooperative selection of aptamer pairs by unlocking parallel enrichment paths	Proximity Biosciences LLC	100.00%	\$68,970.00
Ellis, Holly R.	PI	Chemistry & BioChemistry	Defining the mechanistic strategies of defulfonation in the alkanesulfonate sulfonate monoxygenase system	NSF-National Science Foundation	100.00%	\$163,962.00
Ellis, Holly R.	PI	Chemistry & BioChemistry	Defining the mechanistic strategies of defulfonation in the alkanesulfonate sulfonate monoxygenase system	NSF-National Science Foundation	100.00%	\$5,464.00
Goodwin, Douglas C.	PI	Chemistry & BioChemistry	Conduits and control of KatG intramolecular electron transfer: Formation and operation of a novel cofactor	NSF-National Science Foundation	100.00%	\$10,000.00
Goodwin, Douglas C.	PI	Chemistry & BioChemistry	Conduits and control of KatG intramolecular electron transfer: Formation and operation of a novel cofactor	NSF-National Science Foundation	100.00%	\$5,000.00
Goodwin, Douglas C.	PI	Chemistry & BioChemistry	Conduits and control of KatG intramolecular electron transfer: Formation and operation of a novel cofactor	NSF-National Science Foundation	100.00%	\$178,198.00
Goodwin, Douglas C.	PI	Chemistry & BioChemistry	Conduits and control of KatG intramolecular electron transfer: Formation and operation of a novel cofactor	NSF-National Science Foundation	100.00%	\$376,262.00

Gorden, Anne Elizabeth V.	PI	Chemistry & BioChemistry	Molecular recognition & selective sequestration for detection of Uranium, Neplunium or Plutonium	DOD-DTRA-Defense Threat Reduction Agency	100.00%	\$132,572.00
Mansoorabadi, Steven O.	PI	Chemistry & BioChemistry	EAGER: Towards the development of engineered microorganisms & enzyme systems for methane production and conversion to liquid fuel	NSF-National Science Foundation	100.00%	\$106,192.00
Mansoorabadi, Steven O.	PI	Chemistry & BioChemistry	Mechanistic and biosynthetic studies of dinoflagellate bioluminescence	NSF-National Science Foundation	100.00%	\$703,000.00
Mansoorabadi, Steven O.	PI	Chemistry & BioChemistry	Massachusetts Institute of Technology (MIT) - Single-step methane to liquid fuels	Massachusetts Institute of Technology	100.00%	\$156,954.00
Ortiz, Joseph Vincent	PI	Chemistry & BioChemistry	Structure and bonding in double rydberg anions and related species	NSF-National Science Foundation	100.00%	\$420,000.00
Shannon, Curtis G.	PI	Chemistry & BioChemistry	Tuskegee University Nano-Bio MSP	Tuskegee University	67.00%	\$69,680.00
Shannon, Curtis G.	PI	Chemistry & BioChemistry	Tuskegee University Nano-Bio MSP	Tuskegee University	67.00%	\$4,020.00

Chemistry and Biochemistry Totals

\$2,781,962.00

PROPOSALS FOR FY 2016 FOR CHEMISTRY & BIOCHEMISTRY

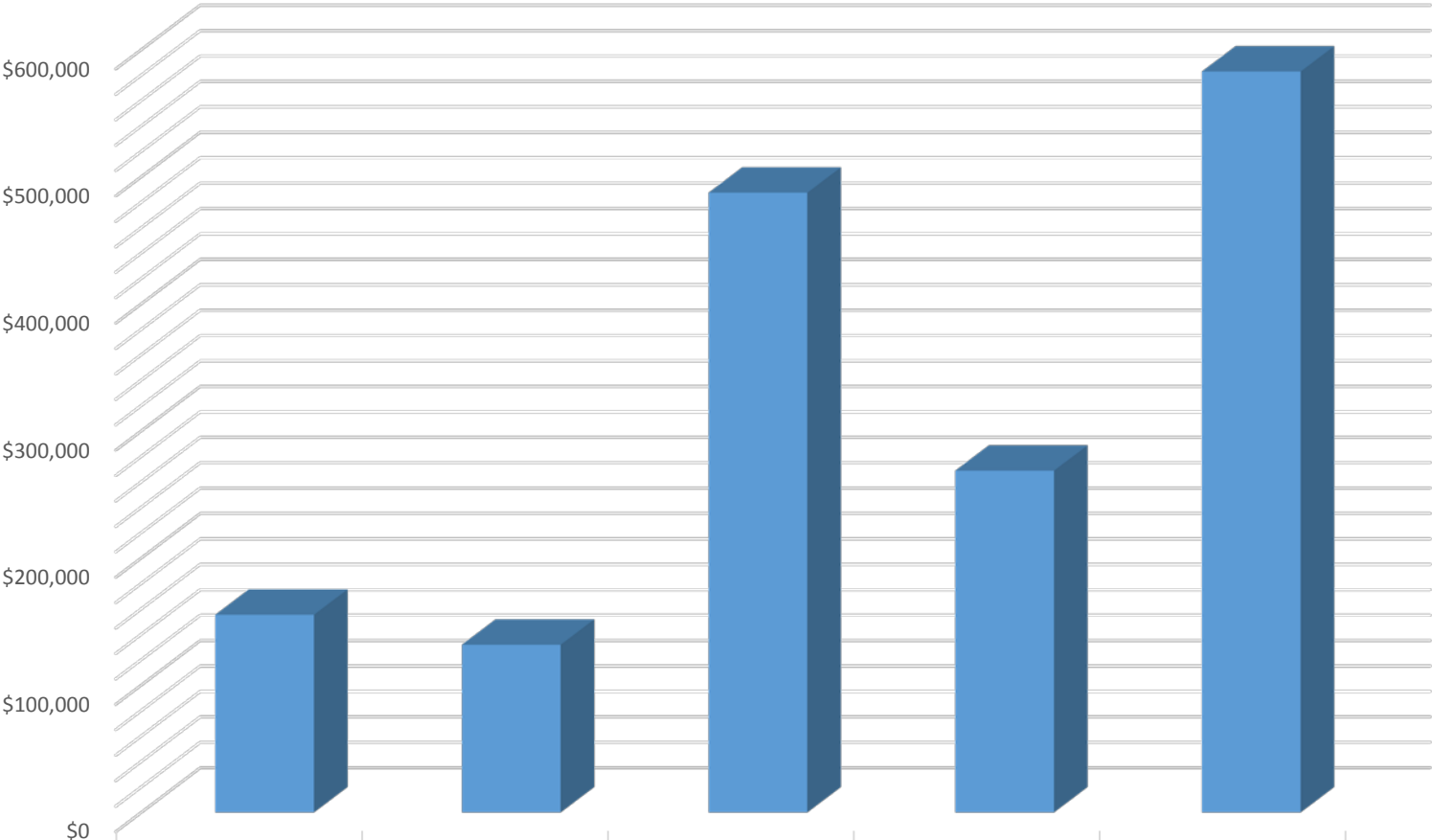
CF#	PI NAME	PI/COPI	% CREDIT	DEPARTMENT	BUDGET AMOUNT
0093-16	Merner, Bradley L.	PI	100.00%	Chemistry & BioChemistry	\$110,000.00
0116-16	Mansoorabadi, Steven O.	PI	100.00%	Chemistry & BioChemistry	\$323,184.00
0144-16	Zhan, Wei	PI	100.00%	Chemistry & BioChemistry	\$453,968.00
0149-16	Mansoorabadi, Steven O.	PI	100.00%	Chemistry & BioChemistry	\$10,000.00
0334-16	Duin, Eduardus C.	PI	100.00%	Chemistry & BioChemistry	\$131,307.00
0337-16	Duin, Eduardus C.	PI	50.00%	Chemistry & BioChemistry	\$412,349.50
0337-16	Mansoorabadi, Steven O.	COPI	50.00%	Chemistry & BioChemistry	\$412,349.50
0347-16	Goodwin, Douglas C.	PI	100.00%	Chemistry & BioChemistry	\$569,460.00
0386-16	Mansoorabadi, Steven O.	PI	100.00%	Chemistry & BioChemistry	\$830,560.00
0528-16	Mansoorabadi, Steven O.	PI	100.00%	Chemistry & BioChemistry	\$703,000.00
0643-16	Shannon, Curtis G.	COPI	25.00%	Chemistry & BioChemistry	\$742,245.00
0703-16	Gorden, Anne Elizabeth V.	COPI	20.00%	Chemistry & BioChemistry	\$726,571.60
0726-16	Blumenthal, Rik	PI	100.00%	Chemistry & BioChemistry	\$449,874.00
0817-16	Patkowski, Konrad J.	PI	100.00%	Chemistry & BioChemistry	\$75,000.00
0962-16	Worley, S. D.	PI	33.34%	Chemistry & BioChemistry	\$33,340.00
0962-16	Shannon, Curtis G.	COPI	33.33%	Chemistry & BioChemistry	\$33,330.00
1063-16	Mills, German	COPI	50.00%	Chemistry & BioChemistry	\$55,000.00
1068-16	Patkowski, Konrad J.	PI	100.00%	Chemistry & BioChemistry	\$100,742.00
1419-16	Duin, Eduardus C.	PI	100.00%	Chemistry & BioChemistry	\$39,960.00
1512-16	Blumenthal, Rik	PI	100.00%	Chemistry & BioChemistry	\$479,778.00
1644-16	Duin, Eduardus C.	PI	100.00%	Chemistry & BioChemistry	\$10,000.00
1731-16	Flores, Adriana Avila	PI	100.00%	Chemistry & BioChemistry	\$199,966.00
1755-16	Mansoorabadi, Steven O.	PI	100.00%	Chemistry & BioChemistry	\$106,191.00
1863-16	Ortiz, Joseph Vincent	PI	100.00%	Chemistry & BioChemistry	\$419,997.00
1890-16	Goodwin, Douglas C.	COPI	50.00%	Chemistry & BioChemistry	\$218,966.00
1979-16	Ortiz, Joseph Vincent	PI	100.00%	Chemistry & BioChemistry	\$420,000.00
2167-16	Merner, Bradley L.	PI	100.00%	Chemistry & BioChemistry	\$724,310.00
2412-16	Blumenthal, Rik	PI	25.00%	Chemistry & BioChemistry	\$26,680.00
2412-16	Easley, Christopher J.	COPI	25.00%	Chemistry & BioChemistry	\$26,680.00
2412-16	Gorden, Anne Elizabeth V.	COPI	25.00%	Chemistry & BioChemistry	\$26,680.00
2412-16	Mills, German	COPI	25.00%	Chemistry & BioChemistry	\$26,680.00
2553-16	Goldsmith, Christian R.	PI	100.00%	Chemistry & BioChemistry	\$524,657.00

2715-16	Gorden, Anne Elizabeth V.	PI	100.00%	Chemistry & BioChemistry	\$512,634.00
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**Budget amount based on percentage split from total proposed budget amount

***Highlighted proposals originated in other colleges

Amount of New Grant Dollars Geosciences FY 12-16



■ Amount of New Grant Dollars in FY

2012
\$155,407

2013
\$131,817

2014
\$487,500

2015
\$268,766

2016
\$582,857

■ Amount of New Grant Dollars in FY

Geosciences Research Grants with New Dollars in FY16

Chaney, Phillip L.	PI	Geosciences	Lee County 911 address update project for rural areas	Lee County E 9-1-1	100.00%	\$68,418.00
King, David T.	PI	Geosciences	Combining sample analysis and numerical modeling to reconstruct the origin and evolution of Flynn Creek Crater, Tennessee	USDI - U.S. Geological Survey	100.00%	\$24,000.00
Lee, Ming-Kuo	PI	Geosciences	Collaborative research: CICI: Secure and resilient architecture: Data integrity assurance and privacy protection solutions for secure interoperability of cloud resources	NSF-National Science Foundation	100.00%	\$173,412.00
Lee, Ming-Kuo	COPI	Geosciences	Collaborative research: CICI: Secure and resilient architecture: Data integrity assurance and privacy protection solutions for secure interoperability of cloud resources	NSF-National Science Foundation	15.00%	\$70,054.20
Marzen, Luke J.	COPI	Geosciences	Urban Forestry: I-Tree Eco Development Project	USDA - Forest Service	33.33%	\$5,999.40
Medina-Elizalde, Martin Andres	PI	Geosciences	Collaborative Research: A speleothem study of the paleoclimatology of the Yucatan Peninsula; Testing modes and causes of variability in the North American tropics	NSF-National Science Foundation	100.00%	\$102,612.00
Shepherd, Stephanie L.	PI	Geosciences	Early Career: Acquisition of ground penetrating radar	NSF-National Science Foundation	50.00%	\$2,500.00
Shepherd, Stephanie L.	PI	Geosciences	Early Career: Acquisition of ground penetrating radar	NSF-National Science Foundation	50.00%	\$37,065.50
Steltenpohl, Mark G.	PI	Geosciences	Geology of the 1:24,000 Milltown, AL quadrangle	USDI - U.S. Geological Survey	100.00%	\$17,300.00

Wolf, Lorraine W.	PI	Geosciences	Paleoliquefaction studies in moderate seismicity regions with a history of large events	Tuttle and Associates, Georgetown, Maine	100.00%	\$8,430.00
Wolf, Lorraine W.	COPI	Geosciences	Early Career: Acquisition of ground penetrating radar	NSF-National Science Foundation	50.00%	\$2,500.00
Wolf, Lorraine W.	COPI	Geosciences	Early Career: Acquisition of ground penetrating radar	NSF-National Science Foundation	50.00%	\$37,065.50
Geosciences Research Totals						\$549,357.00

Geosciences Outreach Grants with New Dollars in FY16

Marzen, Luke J.	PI	Geosciences	Stateview program development and operations for the State of Alabama	AmericaView, Inc	50%	\$11,750.00
		Geosciences	Stateview program development and operations for the State of Alabama	AmericaView, Inc	50%	\$11,750.00
		Geosciences	Stateview program development and operations for the State of Alabama	AmericaView, Inc	100%	\$ 10,000.00
Geosciences Outreach Totals						\$ 33,500.00
Geosciences Totals						\$ 582,857.00

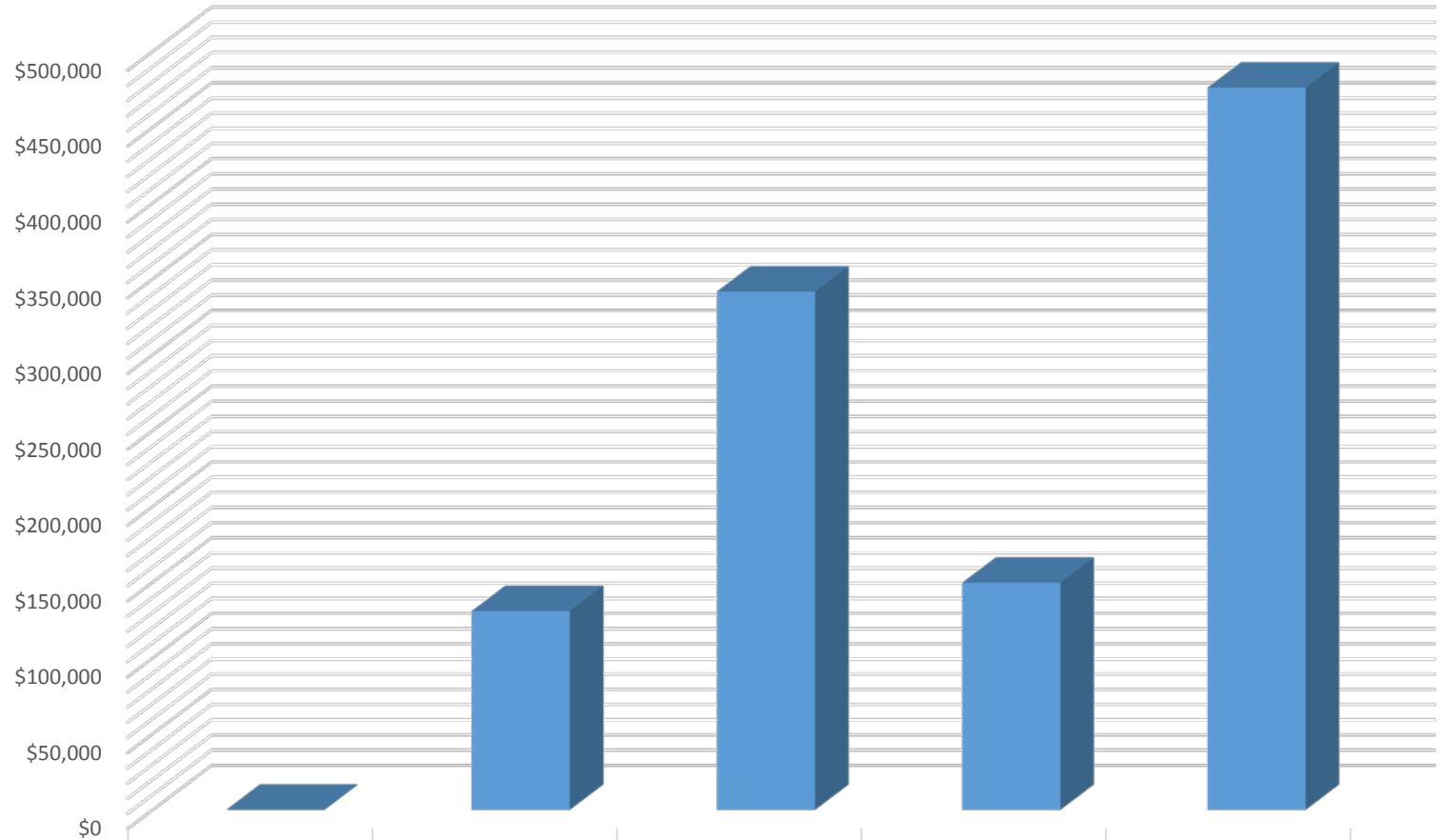
PROPOSALS FOR FY 2016 FOR GEOSCIENCES

CF#	PI NAME	PI/COPI	% CREDIT	DEPARTMENT	BUDGET AMOUNT
0049-16	Shepherd, Stephanie L.	PI	50.00%	Geosciences	\$39,565.50
0049-16	Wolf, Lorraine W.	COPI	50.00%	Geosciences	\$39,565.50
0117-16	Uddin, Ashraf	PI	33.34%	Geosciences	\$98,597.05
0117-16	Lee, Ming-Kuo	COPI	33.33%	Geosciences	\$98,567.48
0223-16	Steltenpohl, Mark G.	PI	100.00%	Geosciences	\$17,300.00
0262-16	Mitra, Chandana	PI	100.00%	Geosciences	\$15,917.00
0613-16	Zou, Haibo	PI	100.00%	Geosciences	\$156,762.00
0774-16	Lee, Ming-Kuo	PI	20.00%	Geosciences	\$798,082.40
0774-16	Uddin, Ashraf	COPI	20.00%	Geosciences	\$798,082.40
0916-16	King, David T.	PI	50.00%	Geosciences	\$426,790.00
0916-16	Zou, Haibo	COPI	50.00%	Geosciences	\$426,790.00
0917-16	Uddin, Ashraf	PI	100.00%	Geosciences	\$3,000.00
1067-16	Zou, Haibo	PI	50.00%	Geosciences	\$35,000.00
1067-16	King, David T.	COPI	50.00%	Geosciences	\$35,000.00
1182-16	Marzen, Luke J.	COPI	25.00%	Geosciences	\$92,169.75
1409-16	Lee, Ming-Kuo	COPI	25.00%	Geosciences	\$187,499.75
1446-16	King, David T.	PI	100.00%	Geosciences	\$48,000.00
1969-16	Zou, Haibo	PI	50.00%	Geosciences	\$100,220.50
1969-16	Hames, Willis E.	COPI	50.00%	Geosciences	\$100,220.50
2261-16	Lee, Ming-Kuo	COPI	25.00%	Geosciences	\$160,110.00
2295-16	Mitra, Chandana	PI	50.00%	Geosciences	\$61,627.50
2295-16	Lee, Ming-Kuo	COPI	50.00%	Geosciences	\$61,627.50
2605-16	Medina-Elizalde, Martin Andres	PI	100.00%	Geosciences	\$102,612.92
2697-16	Chaney, Phillip L.	PI	50.00%	Geosciences	\$13,235.00
2697-16	Brysch, Carmen	COPI	50.00%	Geosciences	\$13,235.00

**Budget amount based on percentage split from total proposed budget amount

***Highlighted proposals originated in other colleges

Amount of New Grant Dollars Mathematics and Statistics FY 12-16



■ Amount of New Grant Dollars in FY

■ Amount of New Grant Dollars in FY

Mathematics & Statistics Research Grants with New Dollars in FY16

Cao, Yanzhao	PI	Mathematics and Statistics	Adaptive and high order PDF methods for nonlinear filtering problems	NSF-National Science Fo	100.00%	\$160,000.00
Cao, Yanzhao	COPI	Mathematics and Statistics	Mathematical methods for approximation and control of multi-dimensional parameterized systems	NSF-National Science Fo	10.00%	\$3,891.30
Cao, Yanzhao	PI	Mathematics and Statistics	Efficient numerical methods for scholastic partial differential equations	Florida A & M Universit	100.00%	\$13,860.00
Han, Xiaoying	PI	Mathematics and Statistics	Stochastic dynamical systems arising from the applied sciences	Simons Foundation	100.00%	\$7,000.00
Johnson, Peter D.	COPI	Mathematics and Statistics	Research experience for undergraduates in algebra & discrete mathematics at Auburn University	NSF-National Science Fo	50.00%	\$17,949.50
Johnson, Peter D.	COPI	Mathematics and Statistics	Research experience for undergraduates in algebra & discrete mathematics at Auburn University	NSF-National Science Fo	50.00%	\$30,000.00
Lu, Nan	PI	Mathematics and Statistics	Dynamical system approach in partial differential equations	NSF-National Science Fo	100.00%	\$88,365.00
McDonald, Jessica Mae	PI	Mathematics and Statistics	Structure, colouring and flows in graphs	NSF-National Science Fo	100.00%	\$120,000.00

Zhang, Guannan	PI	Mathematics and Statistics	Mathematical methods for approximation and control of multi-dimensional parameterized systems	NSF-National Science Fo	90.00%	\$35,021.70
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Mathematics and Statistics Totals

\$476,088.00

PROPOSALS FOR FY 2016 FOR MATHEMATICS & STATISTICS

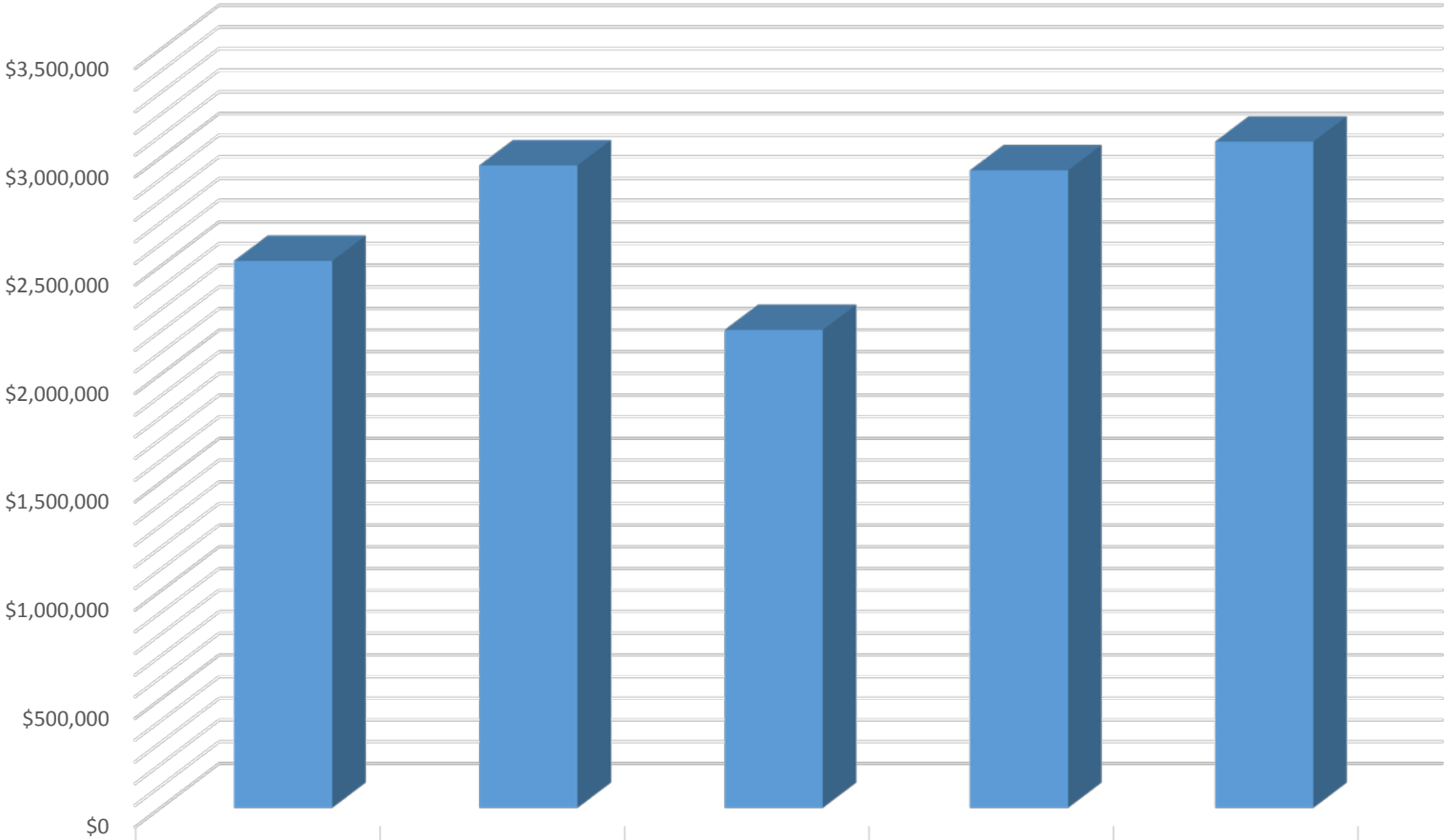
CF#	PI NAME	PI/COPI	% CREDIT	DEPARTMENT	BUDGET AMOUNT
0018-16	McDonald, Jessica Mae	PI	100.00%	Mathematics and Statistics	\$151,875.00
0115-16	McDonald, Jessica Mae	PI	100.00%	Mathematics and Statistics	\$39,985.00
0132-16	Oeding, Luke A.	PI	100.00%	Mathematics and Statistics	\$40,000.00
0135-16	Cao, Guanqun (Vivian)	PI	100.00%	Mathematics and Statistics	\$136,171.00
0136-16	Nane, Erkan	PI	100.00%	Mathematics and Statistics	\$128,091.00
0234-16	Feng, Ziqin	PI	100.00%	Mathematics and Statistics	\$154,634.00
0260-16	Oeding, Luke A.	PI	100.00%	Mathematics and Statistics	\$16,000.00
0280-16	li, Xiaoyu	PI	100.00%	Mathematics and Statistics	\$119,054.00
0299-16	Oeding, Luke A.	COPI	33.33%	Mathematics and Statistics	\$197,349.26
0329-16	Han, Xiaoying	PI	100.00%	Mathematics and Statistics	\$228,126.00
0332-16	Shen, Wenxian	PI	100.00%	Mathematics and Statistics	\$276,216.00
0417-16	Zhang, Guannan	PI	50.00%	Mathematics and Statistics	\$58,456.50
0417-16	Cao, Yanzhao	COPI	50.00%	Mathematics and Statistics	\$58,456.50
0447-16	Cao, Yanzhao	PI	100.00%	Mathematics and Statistics	\$176,539.00
0455-16	Oeding, Luke A.	PI	100.00%	Mathematics and Statistics	\$328,967.00
0483-16	Abebe, Ash	COPI	25.00%	Mathematics and Statistics	\$1,249,656.75
0643-16	Abebe, Ash	COPI	25.00%	Mathematics and Statistics	\$742,245.00
0697-16	Han, Xiaoying	PI	100.00%	Mathematics and Statistics	\$35,000.00
0698-16	McDonald, Jessica Mae	PI	100.00%	Mathematics and Statistics	\$35,000.00
1075-16	van Wyk, Hans-Werner	COPI	50.00%	Mathematics and Statistics	\$111,407.00
1440-16	Oeding, Luke A.	PI	100.00%	Mathematics and Statistics	\$35,253.00
1528-16	Zeng, Peng	COPI	33.33%	Mathematics and Statistics	\$466,620.00
1664-16	McDonald, Jessica Mae	PI	100.00%	Mathematics and Statistics	\$120,000.00
1735-16	Lu, Nan	PI	100.00%	Mathematics and Statistics	\$88,365.00
1857-16	Abebe, Ash	COPI	20.00%	Mathematics and Statistics	\$57,457.60
1903-16	Smith, Michel	PI	100.00%	Mathematics and Statistics	\$2.00
1904-16	Abebe, Ash	COPI	33.33%	Mathematics and Statistics	\$682,476.59
2094-16	Lin, Junshan	PI	100.00%	Mathematics and Statistics	\$482,625.00
2145-16	Oeding, Luke A.	PI	100.00%	Mathematics and Statistics	\$601,079.00
2214-16	Zhang, Guannan	PI	50.00%	Mathematics and Statistics	\$19,456.50
2214-16	Cao, Yanzhao	COPI	50.00%	Mathematics and Statistics	\$19,456.50
2462-16	Abebe, Ash	COPI	50.00%	Mathematics and Statistics	\$90,000.00

2579-16	Cao, Yanzhao	COPI	50.00%	Mathematics and Statistics	\$225,603.00
2670-16	Gaillard, Philippe R.	COPI	14.28%	Mathematics and Statistics	\$245,509.19
2670-16	Fan, Shirley Xiuli	COPI	14.28%	Mathematics and Statistics	\$245,509.19

**Budget amount based on percentage split from total proposed budget amount

***Highlighted proposals originated in other colleges

Amount of New Grant Dollars Physics FY 12-16



	2012	2013	2014	2015	2016
■ Amount of New Grant Dollars in FY	\$2,523,769	\$2,964,592	\$2,205,196	\$2,941,757	\$3,074,577

■ Amount of New Grant Dollars in FY

Physics Research Grants with New Dollars in FY16						
PI Name	Role	Department	Project Title	Sponsor	Percentage	FY 16 Amount
Ahyi, Claude Ayayi	COPI	Physics	Advanced high-voltage silicon carbide power devices	United Silicon Carbide, Inc.	50.00%	\$35,000.00
Ahyi, Claude Ayayi	COPI	Physics	Development of next-generation SiC trench MOSFETS	Texas Instruments, Inc.	50.00%	\$135,000.00
Ahyi, Claude Ayayi	COPI	Physics	Development of an open gate dielectric process for SiC MOSFET manufacturing	North Carolina State University	50.00%	\$49,867.00
Bozack, Michael J.	COPI	Physics	AMRCEC membership in CAVE 3	NSF-National Science Foundation	20.00%	\$14,046.00
Dhar, Sarit	PI	Physics	Development of an open gate dielectric process for SiC MOSFET manufacturing	North Carolina State University	50.00%	\$49,867.00
Dhar, Sarit	PI	Physics	Accelerator services #1	SolAero Technologies Corp.	50.00%	\$9,609.50
Dhar, Sarit	PI	Physics	Accelerator services #2	SolAero Technologies Corp.	50.00%	\$1,474.50
Dhar, Sarit	PI	Physics	Development of next-generation SiC trench MOSFETS	Texas Instruments, Inc.	50.00%	\$135,000.00
Dhar, Sarit	PI	Physics	Accelerator services #3 Chris K	SolAero Technologies Corp.	50.00%	\$2,555.00
Dhar, Sarit	PI	Physics	Exploration of high performance gate dielectrics for next generation SiC power MOSFETS	II-VI Foundation	100.00%	\$94,817.00
Dhar, Sarit	PI	Physics	Advanced high-voltage silicon carbide power devices	United Silicon Carbide, Inc.	50.00%	\$35,000.00
Dhar, Sarit	PI	Physics	Spectrolab - Irradiation Services	Spectrolab, Inc.	100.00%	\$16,656.00
Dhar, Sarit	COPI	Physics	Accelerator services - Solar Junction (Bilir)	Solar Junction Corp.	100.00%	\$7,815.00
Dhar, Sarit	PI	Physics	Scientific - Irradiation services	Scientific, Inc	100.00%	\$6,094.00
Dhar, Sarit	PI	Physics	SolAero Technologies Corporation - Chris K #2 (Set 1)	SolAero Technologies Corp.	100.00%	\$3,872.00
Dhar, Sarit	PI	Physics	SolAero Technologies Corporation - Chris K #3 (Set 2)	SolAero Technologies Corp.	100.00%	\$6,612.00
Dong, Jianjun A.	PI	Physics	Ab initio phonon models of lattice thermal conductivity of lower mantle minerals	NSF-National Science Foundation	100.00%	\$70,198.00

Ennis, David	PI	Physics	Erosion and re-deposition spectroscopic diagnostic developments for high-Z PFCs in DIII-D	DOE - Office of Science	60.00%	\$103,750.80
Fogle, Michael R.	PI	Physics	Electron-driven correlated dynamics of complex systems	NSF-National Science Founda	100.00%	\$60,236.00
Fogle, Michael R.	PI	Physics	Electron-driven correlated dynamics of complex systems	NSF-National Science Founda	100.00%	\$1,468.00
Guazzotto, Luca	PI	Physics	Development of two fluid equilibrium and stability analysis in axisymmetric plasmas	DOE - United States Departm	100.00%	\$92,560.00
Guazzotto, Luca	PI	Physics	Development of two fluid equilibrium and stability analysis in axisymmetric plasmas	DOE - United States Departm	100.00%	\$17,000.00
Hanson, James D.	PI	Physics	NG-Radiation testing of 100 ohms CNT conductor and control wires at 4MRads and 25 Mrads	Northrop Grumman	100.00%	\$9,490.00
Hanson, James D.	PI	Physics	3D Equilibrium reconstruction and MHD studies in stellarators	DOE - United States Departm	100.00%	\$100,000.00
Isaacs-Smith, Tamara	COPI	Physics	Accelerator services #2	SolAero Technologies Corp.	50.00%	\$1,474.50
Isaacs-Smith, Tamara	COPI	Physics	Accelerator services #1	SolAero Technologies Corp.	50.00%	\$9,609.50
Isaacs-Smith, Tamara	COPI	Physics	Accelerator services #3 Chris K	SolAero Technologies Corp.	50.00%	\$2,555.00
Konopka, Uwe	COPI	Physics	Collaborative Research - Advancing the physics of magnetized dusty plasmas	DOE - United States Departm	50.00%	\$142,325.00
Konopka, Uwe	COPI	Physics	Collaborative Research: Physics of a magnetized dusty plasmas	NSF-National Science Founda	50.00%	\$7,500.00
Lin, Yu	PI	Physics	Observations and hybrid simulations of fast flows in the magnetotail	Johns Hopkins University	100.00%	\$24,358.00
Lin, Yu	PI	Physics	GEM: Mode conversion and kinetic alfvén waves at the magnetopause and their effects in the magnetosphere	NSF-National Science Founda	100.00%	\$150,383.00
Liu, Kaijun	PI	Physics	Investigating proton Bernstein instabilities in space plasmas	Johns Hopkins University	100.00%	\$20,763.00
Loch, Stuart David	PI	Physics	Atomic fine structure diagnostic and cooling transitions for far infrared and submillimeter observations	NASA - Goddard Space Flight	100.00%	\$186,051.00

Loch, Stuart David	COPI	Physics	Erosion and re-deposition spectroscopic diagnostic developments for high-Z PFCs in DIII-D	DOE - Office of Science	40.00%	\$69,167.20
Loch, Stuart David	PI	Physics	A resolution to the low temperature electron recombination problem for astrophysical plasmas	NASA - Goddard Space Flight	50.00%	\$23,033.00
Loch, Stuart David	PI	Physics	A resolution to the low temperature recombination problems for astrophysical plasmas	NASA - Goddard Space Flight	50.00%	\$20,000.00
Maurer, David A.	PI	Physics	Three dimensional equilibrium stability and its impact on edge transport and divertor performance in Wendelstein 7-X	DOE - United States Departm	100.00%	\$100,000.00
Maurer, David A.	PI	Physics	MHD stability and equilibrium in a current driven stellerator-tokamak hybrid	DOE - United States Departm	100.00%	\$630,000.00
Maurer, David A.	PI	Physics	Three dimensional equilibrium stability and its impact on edge transport and divertor performance in Wendelstein 7-x	DOE - Office of Science	100.00%	\$141,985.00
Perez, Joseph D.	PI	Physics	TWINS mission operations and data analysis phase E - Extended mission (FY 2016/17)	SWRI - Southwest Research I	100.00%	\$40,757.00
Perez, Joseph D.	PI	Physics	TWINS mission operations and data analysis Phase E - Extended version (FY 2014-2015)	SWRI - Southwest Research I	100.00%	\$10,243.00
Perez, Joseph D.	PI	Physics	TWINNS mission operations and data analysis phase E- Extended Mission (FY2016/17)	SWRI - Southwest Research I	100.00%	\$14,000.00
Pindzola, Michael S.	COPI	Physics	A resolution to the low temperature electron recombination problem for astrophysical plasmas	NASA - Goddard Space Flight	50.00%	\$23,033.00
Pindzola, Michael S.	COPI	Physics	A resolution to the low temperature recombination problems for astrophysical plasmas	NASA - Goddard Space Flight	50.00%	\$20,000.00
Thomas, Edward E.	PI	Physics	Collaborative Research: Physics of a magnetized dusty plasmas	NSF-National Science Founda	50.00%	\$7,500.00
Thomas, Edward E.	PI	Physics	PLASMALAB: Measurement	California Institute of Techno	100.00%	\$80,000.00

Thomas, Edward E.	PI	Physics	Collaborative Research - Advancing the physics of magnetized dusty plasmas	DOE - United States Departm	50.00%	\$142,325.00
			Physics Research Totals			\$2,925,050.00
			Physics Outreach Grants with New Dollars in FY16			
Landers, Allen	PI	Physics	STEM enrichment in physics, mathematics and project based learning: Meeting K-12 needs in Alabama	Alabama Dept. of Education - ALDoEd	100%	\$27,500.00
Landers, Allen	PI	Physics	STEM enrichment in physics, mathematics and project based learning: Meeting K-12 needs in Alabama	Alabama Dept. of Education - ALDoEd	100%	\$64,423
Landers, Allen	PI	Physics	STEM enrichment in physics, mathematics and project based learning: Meeting K-12 needs in Alabama	Alabama Dept. of Education - ALDoEd	100%	\$48,604.00
Landers, Allen	PI	Physics	STEM enrichment in physics, mathematics and project based learning: Meeting K-12 needs in Alabama	Alabama Dept. of Education - ALDoEd	100%	\$9,000.00
			Physics Outrechah Totals			\$149,527.00
			Physics Totals			\$ 3,074,577.00

PROPOSALS FOR FY 2016 FOR COSAM

CF#	PI NAME	PI/COPI	% CREDIT	DEPARTMENT	BUDGET AMOUNT
0010-16	Kuroda, Marcelo	COPI	33.33%	Physics	\$8,332.50
0019-16	Pindzola, Michael S.	PI	100.00%	Physics	\$310,423.00
0075-16	Lin, Yu	PI	100.00%	Physics	\$38,427.00
0076-16	Wang, Xueyi	PI	50.00%	Physics	\$120,508.50
0076-16	Lin, Yu	COPI	50.00%	Physics	\$120,508.50
0186-16	Kuroda, Marcelo	PI	100.00%	Physics	\$3,920.00
0188-16	Dhar, Sarit	PI	50.00%	Physics	\$339,138.00
0188-16	Ahyi, Claude Ayayi	COPI	50.00%	Physics	\$339,138.00
0195-16	Park, Minseo	PI	33.34%	Physics	\$144,666.93
0196-16	Kuroda, Marcelo	PI	100.00%	Physics	\$198,773.00
0259-16	Thomas, Edward E.	PI	50.00%	Physics	\$521,253.00
0259-16	Konopka, Uwe	COPI	50.00%	Physics	\$521,253.00
0261-16	Dhar, Sarit	PI	100.00%	Physics	\$15,966.00
0335-16	Park, Minseo	PI	50.00%	Physics	\$203,754.50
0348-16	Loch, Stuart David	PI	50.00%	Physics	\$150,728.50
0348-16	Pindzola, Michael S.	COPI	50.00%	Physics	\$150,728.50
0385-16	Wang, Xueyi	PI	50.00%	Physics	\$216,264.00
0385-16	Lin, Yu	COPI	50.00%	Physics	\$216,264.00
0390-16	Min, Kyungguk	PI	50.00%	Physics	\$173,904.00
0390-16	Liu, Kaijun	COPI	50.00%	Physics	\$173,904.00
0391-16	Konopka, Uwe	PI	100.00%	Physics	\$291,595.00
0392-16	Guazzotto, Luca	PI	100.00%	Physics	\$750,016.00
0409-16	Perez, Joseph D.	PI	100.00%	Physics	\$119,756.00
0449-16	Park, Minseo	PI	50.00%	Physics	\$83,426.00
0452-16	Dhar, Sarit	PI	50.00%	Physics	\$45,000.00
0452-16	Ahyi, Claude Ayayi	COPI	50.00%	Physics	\$45,000.00
0483-16	Thomas, Edward E.	COPI	25.00%	Physics	\$1,249,656.75
0523-16	Dhar, Sarit	PI	50.00%	Physics	\$49,383.50
0523-16	Ahyi, Claude Ayayi	COPI	50.00%	Physics	\$49,383.50
0526-16	Thomas, Edward E.	PI	100.00%	Physics	\$80,000.00
0643-16	Thomas, Edward E.	COPI	25.00%	Physics	\$742,245.00
0704-16	Dhar, Sarit	COPI	20.00%	Physics	\$154,000.00

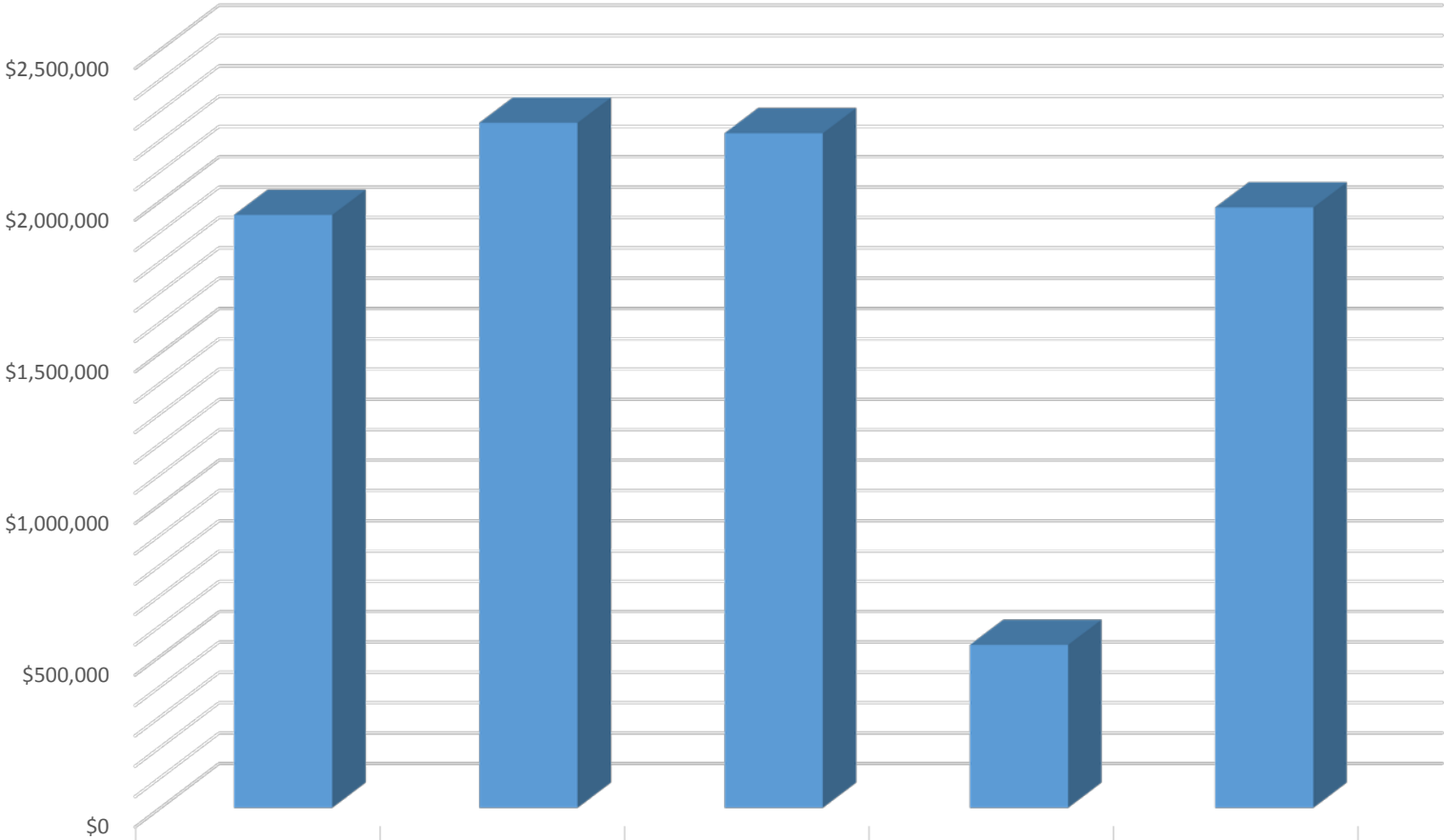
0704-16	Park, Minseo	COPI	20.00%	Physics	\$154,000.00
0721-16	Dhar, Sarit	PI	33.34%	Physics	\$131,264.25
0721-16	Kuroda, Marcelo	COPI	33.33%	Physics	\$131,224.88
0721-16	Ahyi, Claude Ayayi	COPI	33.33%	Physics	\$131,224.88
0793-16	Kuroda, Marcelo	COPI	50.00%	Physics	\$232,500.00
1065-16	Lin, Yu	PI	33.34%	Physics	\$135,578.44
1065-16	Perez, Joseph D.	COPI	33.33%	Physics	\$135,537.78
1065-16	Wang, Xueyi	COPI	33.33%	Physics	\$135,537.78
1075-16	Loch, Stuart David	PI	50.00%	Physics	\$111,407.00
1119-16	Maurer, David A.	PI	100.00%	Physics	\$1,710,000.00
1182-16	Fogle, Michael R.	PI	25.00%	Physics	\$92,169.75
1182-16	Wersinger, Jean-Marie	COPI	25.00%	Physics	\$92,169.75
1309-16	Dhar, Sarit	PI	100.00%	Physics	\$46,875.00
1377-16	Dhar, Sarit	PI	100.00%	Physics	\$6,093.75
1630-16	Liu, Kaijun	PI	50.00%	Physics	\$23,276.50
1630-16	Wang, Xueyi	COPI	50.00%	Physics	\$23,276.50
1681-16	Maurer, David A.	PI	100.00%	Physics	\$100,000.00
1701-16	Guazzotto, Luca	PI	100.00%	Physics	\$16,855.00
1712-16	Dhar, Sarit	PI	100.00%	Physics	\$19,218.75
1715-16	Thomas, Edward E.	PI	50.00%	Physics	\$425,000.00
1715-16	Konopka, Uwe	COPI	50.00%	Physics	\$425,000.00
1718-16	Kuroda, Marcelo	PI	100.00%	Physics	\$4,000.00
1749-16	Dhar, Sarit	PI	50.00%	Physics	\$737.31
1749-16	Isaacs-Smith, Tamara F.	COPI	50.00%	Physics	\$737.31
1750-16	Dhar, Sarit	PI	100.00%	Physics	\$5,246.59
1800-16	Thomas, Edward E.	PI	50.00%	Physics	\$7,500.00
1800-16	Konopka, Uwe	COPI	50.00%	Physics	\$7,500.00
2015-16	Perez, Joseph D.	PI	100.00%	Physics	\$178,500.00
2021-16	Dhar, Sarit	PI	100.00%	Physics	\$16,202.31
2022-16	Hanson, James D.	PI	50.00%	Physics	\$3,907.50
2022-16	Dhar, Sarit	COPI	50.00%	Physics	\$3,907.50
2032-16	Lin, Yu	PI	100.00%	Physics	\$33,985.00
2052-16	Perez, Joseph D.	PI	100.00%	Physics	\$219,798.00
2144-16	Liu, Kaijun	PI	100.00%	Physics	\$604,224.00

2164-16	Thomas, Edward E.	PI	100.00%	Physics	\$2,854,999.00
2166-16	Kuroda, Marcelo	PI	100.00%	Physics	\$600,416.00
2230-16	Park, Minseo	PI	50.00%	Physics	\$49,689.50
2246-16	Dhar, Sarit	PI	100.00%	Physics	\$6,234.03
2247-16	Dhar, Sarit	PI	100.00%	Physics	\$6,093.75
2350-16	Konopka, Uwe	PI	50.00%	Physics	\$532,328.00
2350-16	Thomas, Edward E.	COPI	50.00%	Physics	\$532,328.00
2384-16	Liu, Kaijun	PI	50.00%	Physics	\$157,121.00
2384-16	Wang, Xueyi	COPI	50.00%	Physics	\$157,121.00
2386-16	Park, Minseo	PI	50.00%	Physics	\$179,988.00
2475-16	Wang, Xueyi	PI	50.00%	Physics	\$151,890.50
2475-16	Lin, Yu	COPI	50.00%	Physics	\$151,890.50
2476-16	Liu, Kaijun	PI	100.00%	Physics	\$666,213.00
2551-16	Lin, Yu	PI	33.34%	Physics	\$227,926.24
2551-16	Perez, Joseph D.	COPI	33.33%	Physics	\$227,857.88
2551-16	Wang, Xueyi	COPI	33.33%	Physics	\$227,857.88
2603-16	Lin, Yu	PI	100.00%	Physics	\$719,722.00
2652-16	Perez, Joseph D.	PI	100.00%	Physics	\$65,000.00
2709-16	Dhar, Sarit	PI	50.00%	Physics	\$1,281.54
2709-16	Hanson, James D.	COPI	50.00%	Physics	\$1,281.54
2710-16	Hanson, James D.	PI	50.00%	Physics	\$1,965.15
2710-16	Dhar, Sarit	COPI	50.00%	Physics	\$1,965.15

**Budget amount based on percentage split from total proposed budget amount

***Highlighted proposals originated in other colleges

Amount of New Grant Dollars Outreach FY 12-16



	2012	2013	2014	2015	2016
Amount of New Grant Dollars in FY	\$1,954,296	\$2,258,089	\$2,223,665	\$536,694	\$1,979,017

■ Amount of New Grant Dollars in FY

**Office of Outreach Grants
with New Dollars in FY16**

Ewald, Mary L.	PI	STEM enrichment in physics, mathematics and project based learning: Meeting K-12 needs in Alabama	Alabama Dept. of Education - ALDoEd	100.00%	\$66,120.00
Ewald, Mary L.	PI	Auburn University Alabama Science in Motion FY16	Alabama Dept. of Education - ALDoEd	100.00%	\$333,735.00
Ewald, Mary L.	PI	AMSTI FY16	Alabama Dept. of Education - ALDoEd	60.00%	\$933,000.00
Ewald, Mary L.	PI	STEM enrichment in physics, mathematics and project based learning: Meeting K-12 needs in Alabama	Alabama Dept. of Education - ALDoEd	100.00%	\$76,050.00
Ewald, Mary L.	PI	Program Income for 21st CCLC Grant	Various-Miscellaneous	100.00%	\$1,440.00
Ewald, Mary L.	PI	AMSTI Elementary Mathematics Enhancement Project	Alabama Commission on Higher Education-ACHE	100.00%	\$65,000.00
Ewald, Mary L.	PI	Auburn University Alabama Science in Motion FY17	Alabama Dept. of Education - ALDoEd	100.00%	\$343,463.00
Ewald, Mary L.	PI	STEM enrichment in physics, mathematics & project based learning: Meeting K-12 needs in Alabama	Alabama Dept. of Education - ALDoEd	100.00%	\$84,609.00
Ewald, Mary L.	PI	STEM enrichment in physics, mathematics & project based learning: Meeting K-12 needs in Alabama	Alabama Dept. of Education - ALDoEd	100.00%	\$75,600.00

Outreach Totals

\$1,979,017.00