Annual Report on Research

FY 2022

College of Sciences and Mathematics
Office of the Associate Dean for Research

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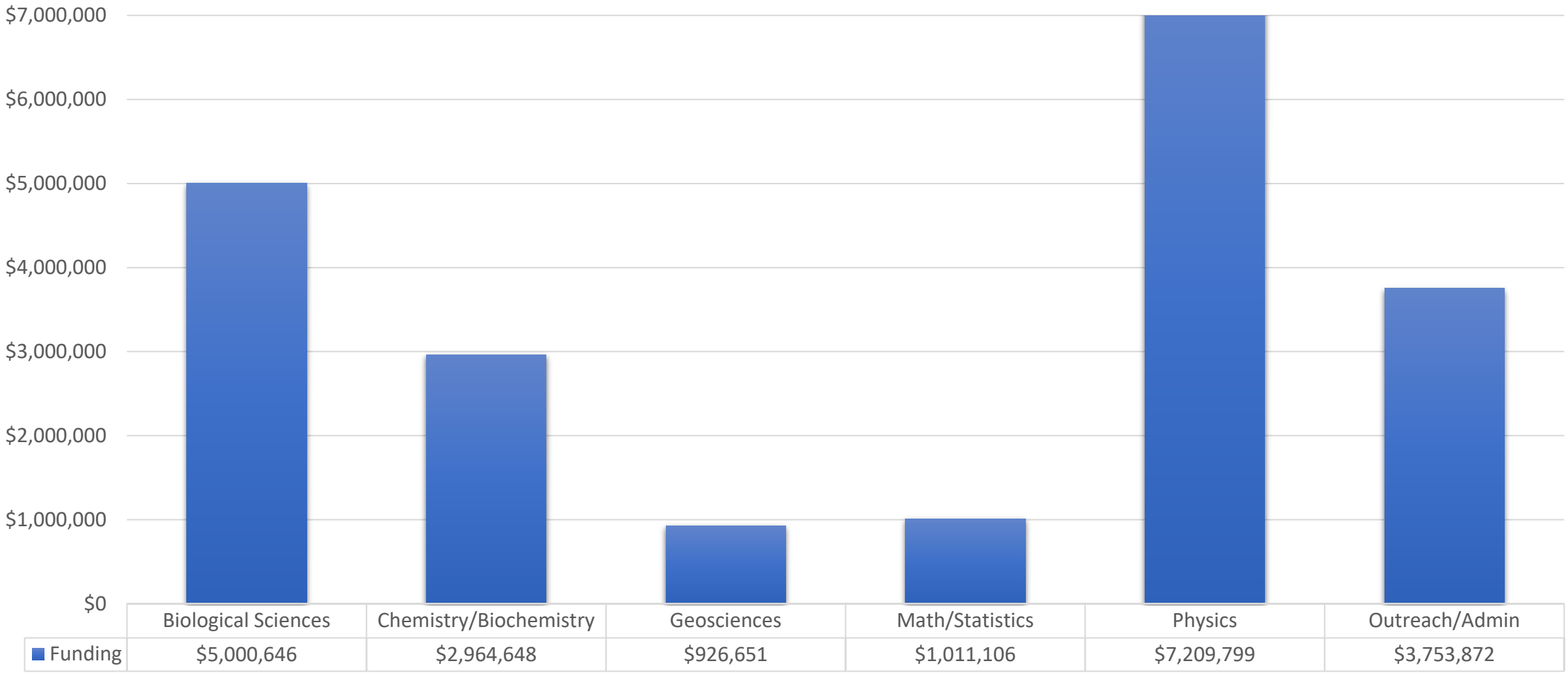
COSAM Data FY22

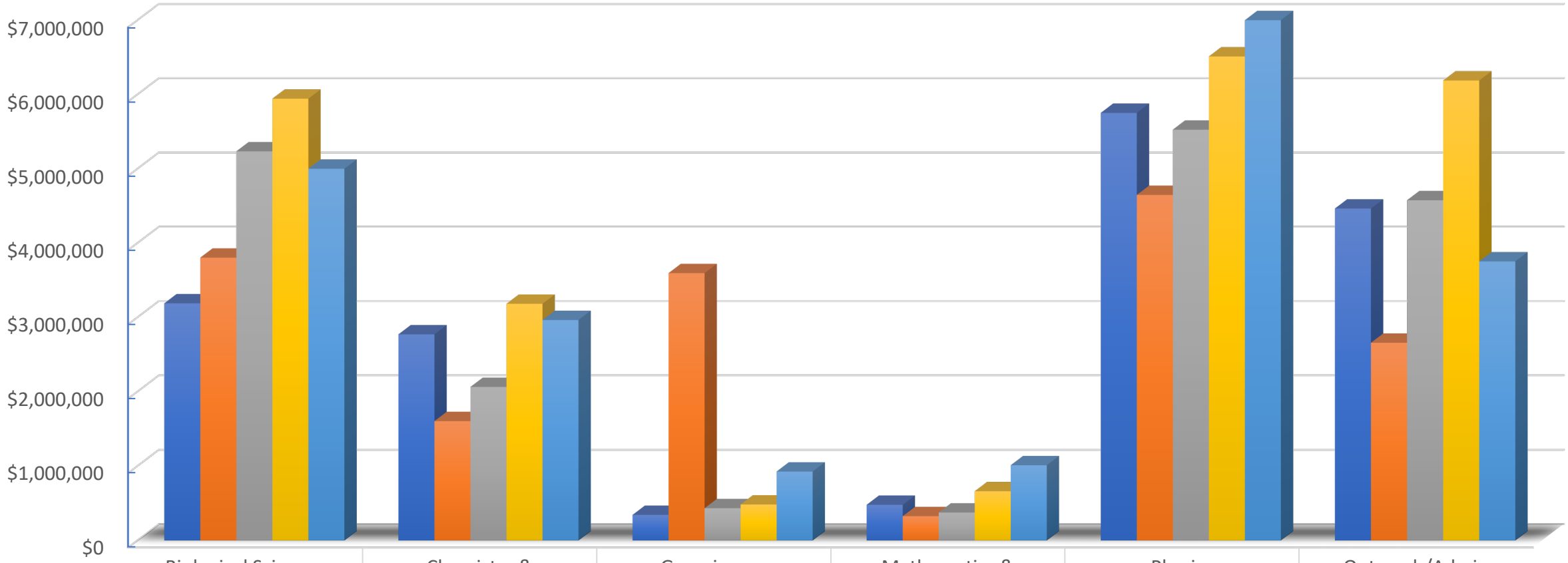
- COSAM Extramural Budget Loads by Department FY22
- COSAM 5 Year Funding History by Department-FY18-FY22
- COSAM Funding by Sponsor FY22

COSAM Extramural Budget Loads by Department
FY 22



	Biological Sciences	Chemistry/Biochemistry	Geosciences	Math/Statistics	Physics	Outreach/Admin
Funding	$5,000,646	$2,964,648	$926,651	$1,011,106	$7,209,799	$3,753,872

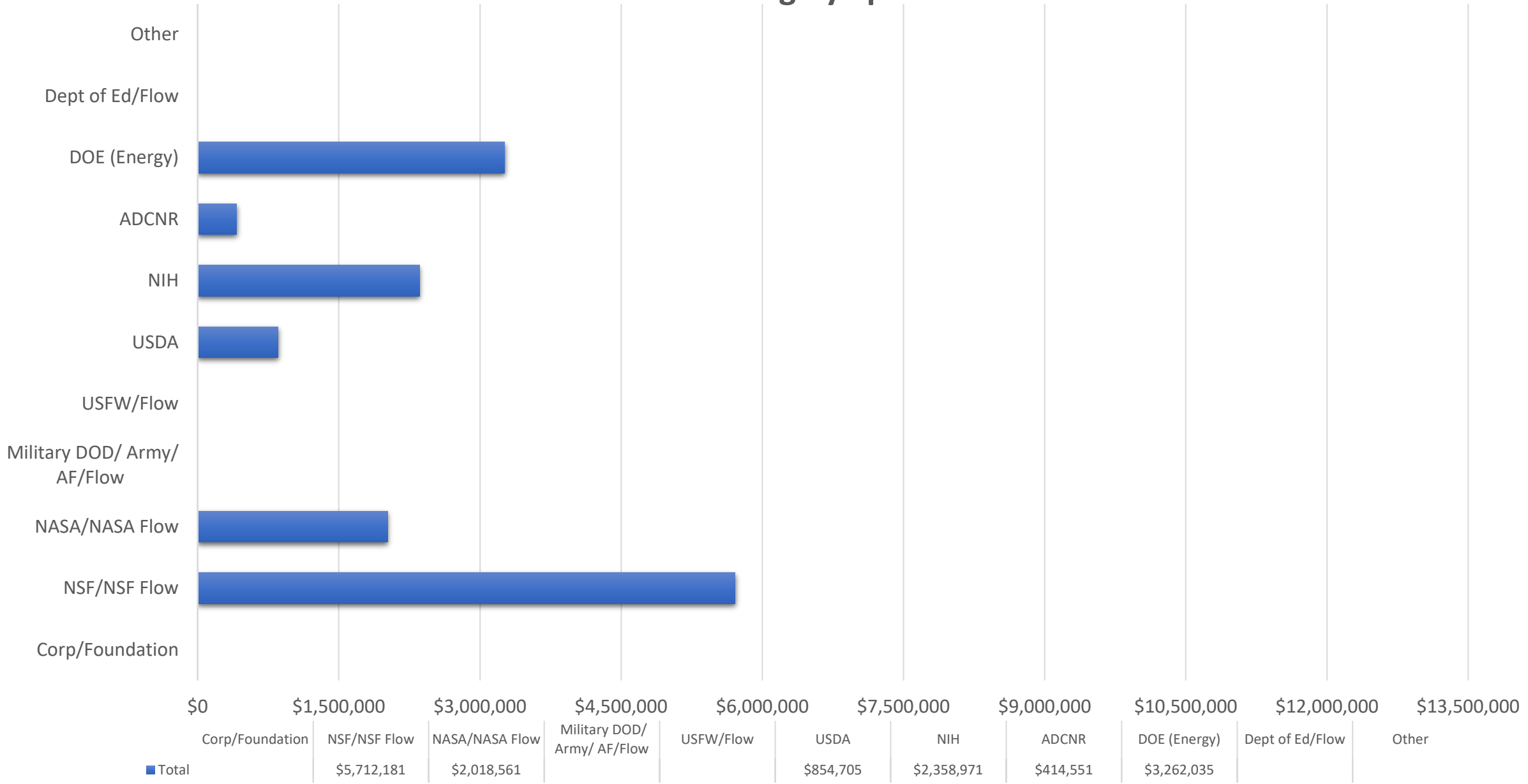
COSAM 5 Year Funding History by Department



	Biological Sciences	Chemistry & Biochemistry	Geosciences	Mathematics & Statistics	Physics	Outreach/Admin
FY2018	$3,189,214	$2,771,358	$343,395	$479,395	$5,752,680	$4,465,250
FY2019	$3,803,724	$1,604,457	$3,595,528	$325,978	$4,647,984	$2,658,317
FY2020	$5,234,827	$2,063,606	$433,519	$375,554	$5,526,497	$4,576,477
FY2021	$5,943,513	$3,182,937	$483,434	$661,817	$6,511,948	$6,188,454
FY2022	$5,000,646	$2,964,648	$926,651	$1,011,106	$7,209,799	$3,753,873

FY2018 FY2019 FY2020 FY2021 FY2022

COSAM Funding by Sponsor FY 22

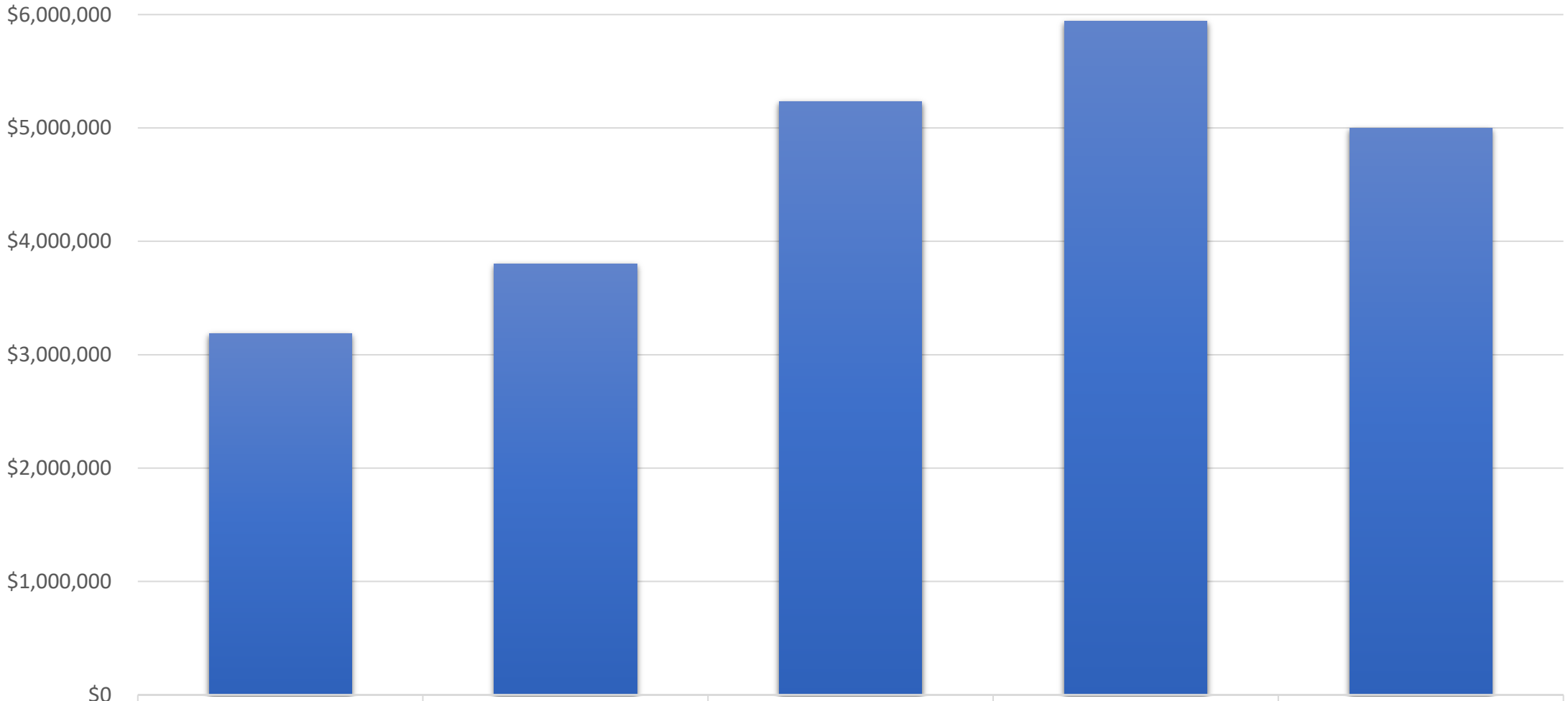


Breakdown of Data by Academic Units FY 22

- Department of Biological Sciences (DBS)
- Department of Chemistry and Biochemistry (DCB)
- Department of Geosciences
- Department of Mathematics and Statistics
- Department of Physics
- COSAM Outreach and Administration

- Departmental data will be presented as follows:
- Chart of 5 year funding history
- Table of new funding received for the fiscal year (budget loads)
- Table of active awards for the fiscal year (active accounts)
- Table of proposals submitted during the current fiscal year

Biological Sciences
FY 22



	2018	2019	2020	2021	2022
Biological Sciences	$3,189,214	$3,803,724	$5,234,827	$5,943,513	$5,000,646

Biological Sciences
Extramural Research Grants with New Dollars Received in FY2022

PI NAME	PI/COPI	PROJECT TITLE	SPONSOR	AMOUNT
Adriana Avila Flores	PI	Delivery Of Anti-Fungal Dsrna Into Yeast And Filamentous Fungi Using Laser-Activated Nanoparticle	NIH	$167,401.55
Adriana Avila Flores	PI	Eval Of Inflammatory Potential Of Bacps &Their Efficacy In Delivering MRNA In Vivo	Phoreus Biotech	$26,034.07
Alfred Schotz	PI	Baptisia Megacarpa Project	ADCNR	$23,000.00
Alfred Schotz	PI	Status Assessment For Swamp Buckthorn In Alabama	ADCNR	$12,750.00
Alfred Schotz	PI	Black Belt Prairie Assessment	ADCNR	$124,592.26
Alfred Schotz	PI	Rudbeckia Heliopsidis Project	ADCNR	$18,000.00
Alfred Schotz/ Leslie Goertzen	PI COPI	Habitat Suitability Modeling & Site Verification For The Lg-Flowered Skullcap In Al	ADCNR	$23,000.00
Brian Counterman	PI	Physiological Genomics Of Sexually Dimorphic Developmental Plasticity On Butterfly Wings	NSF	$620,674.00*
Courtney Leisner	PI	Understanding Plant Natural Product Biosynthesis In Blueberry Thru Core Gene Discovery	USDA-NIFA	$281,173.00
Courtney Leisner	PI	Dissecting The Physiological Mechanisms Of Plant Nutrient Repsonses To Rising Atmospheric Carbon Dioxide Levels	USDA-NIFA	$448,532.00
Daniel Jones	PI	Comparative Genomics Of The Capitulum: Deciphering The Molecular Basis Of A Key Floral Innovation	NSF	$752,045.00
Daniel Warner/Jamie Oaks	PI COPI	Graduate Resch Fellowship Prog For Chris Norris	NSF	$46,000.00
Haruka Wada	PI	Graduate Resch Fellowship Prog For Victoria Coutts	NSF	$46,000.00

Biological Sciences
Extramural Research Grants with New Dollars Received in FY2022

PI NAME	PI/COPI	PROJECT TITLE	SPONSOR	AMOUNT
James Godwin	PI	Occurrence Of Western Chicken Turtle	La Dept Wildlife &Fisheries (Fed Flow)	$20,000.00
James Godwin/ Daniel Warner	PI COPI	Reintroduction Of Eastern Indigo Snake Onto Conecuh National Forest	ADCNR (Fed Flow)	$102,854.00
Jennifer Fenner/ Ryan Range	PI COPI	How Does The Embryonic Development Of Tx Pollinator &Pest Butterflies Differ?	PRIVATE LANDOWNERS-TX ECOLAB	$6,250.00
Joanna Sztuba – Solinska	PI	Interplay Between M6a &Viral Incrna During Kshv Replication	NIH	$226,133.00
Jonathan Armbruster	PI	Investigation Of Ala Red-Bellied Turtle Nesting In American Alligator Nests	ADCNR (Fed Flow)	$60,665.00
Jonathan Armbuster/ Katelyn Lawson	PI COPI	Propeller Scarring Hot Spot Analysis &Behavior Change-Social Marketing Campaign For Tampa Bay	University of Florida (fed flow)	$4,400.00
Katherine Buckley	PI	Regulatory Control Of The System-Wide Innate Immune Response In Marine Invertebrates	NSF	$910,860.00
Kyle Heine/ Wendy Hood	PI COPI	Effects Of Increasing Temp &Ultraviolet Radiation On Copepod Mitochondria Along A Latitudinal Gradient	NSF	$263,705.00*
Laurie Stevison	PI	Role Of Oogenesis In Speciation	NIH	$367,023.00
Leslie Pendergrass	PI	Mgt Activities For White Fringeless Orchid &Relict Trillium In Al	Atlanta Botanical Garden	$7,639.95
Margaret Ballen	PI	Diversifying &Humanizing Scientist Role Models To Increase Impact Of Data Literacy Instruction On Student Interest &Retention In Stem	NSF	$10,787.00
Mark Liles	PI	Assessment Of Immunomodulatory Effect Of Probiotics On The Catfish Adaptive Immune Response & Columnaris Disease Resistance	USDA	$125,000.00
Mark Liles	PI	Reducing Bioburden Of Europa Lander Solid Rocket Motor Insulation & Assessing Bioburden Of Other Srm Nonmetallic Materials Of Concern For Planetary Protection	NASA	$122,092.00
Mark Liles	PI	Eval Of Citrafiber As A Prebiotic To Enhance Bacillus Growth & Avoid Soybean Germination Inhibition	Citrus Extracts (Corp)	$26,717.76

Biological Sciences
Extramural Research Grants with New Dollars Received in FY2022

PI NAME	PI/COPI	PROJECT TITLE	SPONSOR	AMOUNT
Min Zhong	PI	Embedding Metacognition Into Introductory Biology Courses	University of Wyoming (non-fed)	$4,250.00
Ryan Range	PI	Graduate Resch Fellowship Program For Cheikhouna Ka	NSF	$46,000.00
Tonia Schwartz	PI	Paternity Analysis Of Ai Louisiana Pine Snakes	Memphis Zoo (non fed)	$4,534.00
Wendy Hood	PI	Graduate Resch Fellowship Program For Emma Rhodes	NSF	$8,811.96
Wendy Hood/ Geoffrey Hill	PI COPI	Integrated Approach To Health &Longevity-Enhancing Drug Target Discovery	University of Michigan (fed flow)	$93,722.00
			Biological Sciences Total:	**$5,000,645.55**
*Denotes Participant Support Costs Included				

Biological Sciences Active Awards FY22

PI	SPONSOR	TITLE	START DATE	END DATE
Armbruster, Jonathan	The Nature Conservatory	TNC-030119_A105227	03/01/19	11/30/21
Armbruster, Jonathan	Coypu Foundation	COYPU FDN-NEW RVR TRIANGLE	01/01/21	02/28/23
Avila-Flores, Adriana	National Institute of Health	NIH-1R15GM144897-01-DBS	09/20/21	08/31/24
Ballen, Margaret	National Science Foundation	NSF-DUE-2120934*	10/01/21	09/30/24
Ballen, Margaret	National Science Foundation	NSF-DUE-2011995*	10/01/20	09/30/25
Ballen, Margaret/Beatty, Abby	Montana State University-Billings-Iember	MT ST UN-BILLINGS-IEMBER	07/02/21	09/30/23
Ballen, Margaret/Harshman, Jordan	University of Minnesota	UN MN-P007692401	09/01/19	08/31/23
Barbour, Michael/Steen/Schotz/Armbruster	Environmental Protection Agency	EPA-CD-00D65317-0	10/01/17	09/30/22
Bruner, Toni/Armbruster, Jonathan	AL Dept of Conservation and Natural Resources	ADCNR-ENVIRONMENTAL ED-22	08/16/21	07/31/22
Buckley, Katherine	Texas A&M University	TX A&M-M2300343	08/01/22	06/30/24
Buckley, Katherine	National Science Foundation	NSF-IOS-2131297	07/15/22	06/30/25
Counterman, Brian	National Science Foundation	NSF-IOS-2143339*	02/15/22	01/31/27
Fenner, Jennifer/Range, Ryan	Private Landowners Texas Ecolab	PRIVATE LANDOWNERS-TX ECOLAB	05/01/22	12/31/22
Fenner, Jennifer/Range, Ryan	National Science Foundation	NSF-OPP-2038088	09/15/22	08/31/25
Godwin , James/Armbruster/Werneke	Louisiana Dept of Wildlife and Fisheries	LDWF-PO 2000482193	09/30/17	
Godwin, James	AL Dept of Conservation and Natural Resources	ADCNR-FLATTENED MUSK TURTLE-22	10/01/19	09/30/22
Godwin, James	AL Dept of Conservation and Natural Resources	ADCNR-FLATTENED MUSK TURTLE-22	10/01/21	09/30/22
Godwin, James	US Fish and Wildlife Service	FS-20-PA-11080100-103	06/19/20	04/30/25
Godwin, James/Armbruster, Jonathan	US Fish and Wildlife Service	FWS-F20AP12103	10/01/20	12/31/23
Godwin, James/Armbruster, Jonathan	AL Dept of Conservation and Natural Resources	ADCNR-RED-BELLIED TURTLE-21	10/01/20	09/30/22

Biological Sciences Active Awards FY22

PI	SPONSOR	TITLE	START DATE	END DATE
Godwin, James/Armbruster, Jonathan	AL Dept of Conservation and Natural Resources	ADCNR-RED-BELLIED TURTLE-22	10/01/21	09/30/22
Graze, Rita	National Science Foundation	NSF-DEB-1751296*	08/01/18	07/31/23
Halanych, Kenneth	National Science Foundation	NSF-OPP-1916661	09/01/19	08/31/23
Halanych, Kenneth/Armbruster, Jonathan	National Science Foundation	NSF-DBI-2001316	11/01/20	10/31/24
Harkess, Alex	National Science Foundation	NSF-DGE-1937964-KD	09/01/19	08/31/22
Heine, Kyle/Hood, Wendy	National Science Foundation	NSF-OCE-2126224*	12/01/21	11/30/23
Hill, Geoffrey	National Science Foundation	NSF-IOS-1754152	08/15/18	07/31/23
Hill, Geoffrey	National Science Foundation	NSF-IOS-2037741*	08/01/21	07/31/24
Hood, Wendy	National Science Foundation	NSF-DBI-1453784*	04/01/15	03/31/22
Hood, Wendy	National Science Foundation	NSF-DGE-1937964-ER	06/01/22	05/31/23
Hood, Wendy/Hill, Geoffrey	University of Michigan	UN MI-SUBK00014655	02/01/21	08/31/22
Hood, Wendy/Kavazis	University of South Carolina	UN SC-18-3423-PO#2000035389	08/01/17	07/31/23
Lawson, Katelyn/Armbruster, Jonathan	University of Florida	UF-SUB00003184	02/02/22	12/31/23
Leisner, Courtney	US Dept of Agriculture	USDA-2022-67013-36416	01/15/22	01/14/24
Leisner, Courtney	US Dept of Agriculture	USDA-2022-67013-36126-BS	11/01/21	10/31/24
Liles, Mark	Sintef Institute	SINTEF-LILES-22*	04/22/19	09/30/23
Liles, Mark	NASA	NASA-80NSSC20K0665	02/14/20	02/13/24
Liles, Mark	US Dept of Agriculture	USDA-58-6010-0-009	07/01/20	06/30/25
Liles, Mark	Merck Animal Health	MAH-FISH VACCINE	07/01/20	12/31/23
Liles, Mark	Citrus Extracts	CITRUS EXTRACTS-LILES	11/01/20	12/31/22
Liles, Mark	US Dept of Agriculture	USDA-2022-70007-38285-ML	09/10/22	09/09/24

Biological Sciences Active Awards FY22

PI	SPONSOR	TITLE	START DATE	END DATE
Liles, Mark	Varigen Biosciences	VARIGEN-SBIR-LILES	09/01/22	02/28/24
Liles, Mark/Calderon/Petrov	Varigen Biosciences	VARIGEN BIOSCIENCES	05/01/20	11/30/21
Liles, Mark/Saez de Jauregui	Reazent	REAZENT-LILES	06/01/20	03/31/22
Oaks, Jamie	FL Fish & Wildlife Conservation Commission	FFWCC-AGRMT 19149	07/22/20	02/28/22
Oaks, Jamie	National Science Foundation	NSF-DGE-1937964-CN	06/01/22	05/31/23
Oaks, Jamie	National Science Foundation	NSF-DEB-1656004*	05/01/17	04/30/23
Pendergrass, Leslie/Thompson, Patrick	AL Dept of Conservation and Natural Resources	ADCNR-WHORLED SUNFLOWER	10/01/20	09/30/22
Pendergrass, Leslie/Thompson, Patrick	Atlanta Botanical Garden	ATL BOTANICAL GARDEN	03/29/22	12/30/22
Range, Ryan	National Institute of Health	NIH-2R15HD088272-03	03/06/21	02/29/24
Range, Ryan	National Institute of Health	NIH-1R13HD101241-01	02/01/20	01/31/23
Range, Ryan	National Science Foundation	NSF-DGE-1937964-CK	09/01/21	08/31/23
Range, Ryan/Counterman, Brian	Un Puerto Rico Rio Piedras	UPRRP-2021-001	05/01/21	07/31/23
Range, Ryan/Counterman, Brian	National Science Foundation	NSF-IOS-2108227	10/01/20	08/31/22
Rashotte, Aaron	National Science Foundation	NSF-IOS-2033337*	07/15/21	06/30/23
Santos, Scott	Kansas State University	KSU-A20-0470-S001	05/15/20	04/30/22
Santos, Scott	National Science Foundation	NSF-DEB-2020081	05/01/20	04/30/22
Schotz, Alfred	US Army	ARMY-W9126G-19-2-0064	09/27/19	09/30/22
Schotz, Alfred	US Fish and Wildlife Service	FWS-F20AP11387	10/01/20	09/30/23
Schotz, Alfred	AL Dept of Conservation and Natural Resources	ADCNR-BLACK BELT PRAIRIE	03/01/22	09/30/22
Schotz, Alfred/Goertzen, Leslie	AL Dept of Conservation and Natural Resources	ADCNR-S622-AUSKL	10/01/21	09/30/22
Schwartz, Elizabeth	National Science Foundation	NSF-IOS-2123655-BIO	08/01/21	07/31/24

Biological Sciences Active Awards FY22

PI	SPONSOR	TITLE	START DATE	END DATE
Schwartz, Elizabeth/Halanych/Graze	National Science Foundation	NSF-IOS-1755377	07/15/18	06/30/22
Schwartz, Tonia	National Science Foundation	NSF-IOS-2015802-DBS*	06/15/20	05/31/24
Schwartz, Tonia	Memphis Zoo-Schwartz	MEMPHIS ZOO-SCHWARTZ	03/14/22	03/13/23
Schwartz, Tonia/Graze, Rita	National Institute of Health	NIH-1R15AG064655-01	08/01/19	07/31/23
Stevison, Laurie	National Science Foundation	NSF-DEB-1939090*	08/15/19	07/31/23
Stevison, Laurie	National Institute of Health	NIH-1R35GM147501-01	08/18/22	06/30/23
Strader, Marie	National Science Foundation	NSF-OCE-1935308	06/15/19	12/31/22
Strader, Marie/Buckley, Katherine	National Science Foundation	NSF-EF-2021886*	07/15/20	06/30/23
Sztuba-Solinska, Joanna	VCOM	EVCOM-SZTUBA-SOLINSKA-22	07/01/21	06/30/22
Sztuba-Solinska, Joanna	National Institute of Health	NIH-1R21AI159361-01	03/04/21	10/01/22
Upton, Jason	National Institute of Health	NIH-1R15GM136535-01	05/06/20	04/30/24
Wada, Haruka	National Science Foundation	NSF-IOS-1553657*	04/15/16	03/31/23
Wada, Haruka	National Science Foundation	NSF-DGE-1937964-VC	06/01/20	05/31/23
Warner, Daniel	National Science Foundation	NSF-DGE-1414475-JP	09/01/17	12/31/21
Warner, Daniel	National Science Foundation	NSF-DEB-1942145*	03/01/20	02/28/25
Warner, Daniel/Godwin, James	AL Dept of Conservation and Natural Resources	ADCNR-INDIGO SNAKE-16	10/01/15	03/31/22
Zhong, Min	University of Wyoming	UN WY-1005225-AU	07/15/21	07/31/24
*Includes Participant Support Cost		**TOTAL ACTIVE AWARDS: 79**		

Biological Sciences Proposals Submitted FY22

Proposal ID	PI/COPI	Title	Sponsor	Amount Requested
0011-22P	Armbruster, Jonathan	Propeller scarring hot spot analysis and behavior change/social marketing campaign for Tampa Bay	University of Florida	$4,400
1121-22P	Avila-Flores. Adriana	Evaluation of inflammatory potential of BACPs and their efficacy in delivering mRNA in vivo.	Phoreusbiotech	$26,034.07
1198-22P	Avila-Flores, Adriana	Resisting Resistance: Nanoparticle-mediated delivery of dsRNA to induce RNAi in invasive organisms	NSF Career	$517,140.84
0381-22P	Ballen, Cissy	TEST ANXIETY—RETHINKING ASSESSMENT IN INTRODUCTORY STEM (TARA)	NSF	$182,840.03
0625-22P	Ballen, Cissy	Representation in STEM, Student Science Identity, and Nature of Science	NSF	$252,850
1134-22P	Ballen, Cissy	Inclusive Instructional Practices in Undergraduate STEM Introductory Courses	NSF	$219,503.80
1351-22P	Bassar, Ron	The Evolution of Fluctuation-Dependent Species Coexistence	NSF	$1,208,528.94
0866-22P	Bernal de Leon, Moise	Isolation, adaptation and acclimation in the sea: how sister species diverge in contrasting environments	NSF	$195,562.05
1549-22P	Buckley, Katherine	Uncovering novel mediators of gut health using a systems-level model of immune response	Johnson & Johnson 2023 Women in STEM2D Scholars Award, Science category.	$150,000.00
1356-22P	Buckley, Katherine	Connecting the epigenome to phenotypes in purple sea urchins: Characterizing developmental and immunological plasticity in response to environmental change	Texas A&M (NSF Flow)	$132,566.00
0069-22P	Fenner, Jennifer	How does the embryonic development of Texas pollinator and pest butterflies differ?	Texas Ecological Laboratory Program, Braun & Gresham PLLC	$15,100
0704-22P	Fenner, Jennifer/Ryan Range	Assessment of early embryonic developmental timing mechanisms through interspecies comparisons	NIH	$208,446.00
0931-22P	Godwin, James/Katelyn Lawson, Jonathan Armbruster	Occurrence of Snake Fungal Disease in Eastern Indigo Snake	ADCNR	$696,678.25
1179-22P	Godwin, James/Katelyn Lawson	Environmental DNA Survey in Tributaries of the Locust Fork	The Nature Conservatory	$133,843.80
0279-22P	Gross, Iwo	Reproductive ecology of the diamond-backed terrapin (Malaclemys terrapin) in the central Gulf Coast	NOAA, Department of Commerce	$111,680.71

Biological Sciences Proposals Submitted FY22

Proposal ID	PI/COPI	Title	Sponsor	Amount Requested
1531-22P	Hill, Geoffrey	The PhysioIological Basis for Hybrid Breakdown and Haldane's Rule	NSF	$1,772,773.00
0612-22P	Hood, Wendy	The Roles of Mitochondrial Behavior and Morphology in Animal Performance	NSF	$1,232,030.58
0798-22P	Hood, Wendy	Animal Migration as a model for integrative biology: a teaching and research collaboration between Norway and the United States	Norwegian Directorate for Higher Education and Ski	$171,562.31
0773-22P	Hood, Wendy	Variation in mitochondrial function and the unfolded protein response to space radiation in Peromyscus maniculatus	NASA	$899,797.64
0883-22P	Hood, Wendy	Interactions between chronic stress and a high-fat diet during lactation and the implications for mitochondrial function	University of Idaho (DoD flow)	$65,567.48
	Hood, Wendy	An Integrated Approach to Health and Longevity-Enhancing Drug Target Discovery.	NIH-Subcontract Uni of Michigan	$61,983.20
0368-22P	Jones, Daniel	Comparative genomics of the capitulum: deciphering the molecular basis of a key floral innovation	NSF	$884,499.69
0416-22P	Jones, Daniel	Deciphering the integrated mechanisms of host-mycobiome associated plant stress responses through ecological, physiological, and genomics frameworks	NSF	$252,944.62
0470-22P	Lawson, Katelyn	Development of species habitat models to predict spread of emerging aquatic invasives and assess risks to native biodiversity hotspots in the Southeastern US	US Fish and Wildlife Service, Department of Interior	$155,078.44
1056-22P	Lawson, Katelyn/Jonathan Armbruster	Preventing the Introduction and Spread of Invasive through Strategic Landscape-Level Approaches	University of Florida (USFW)	$353,886.35
1029-22P	Lawson, Katelyn/Jonathan Armbruster	Use of habitat suitability modeling and field-based site assessment to identify potential sites for Spring Pygmy Sunfish reintroduction	The Land Trust of North Alabama	$38,726.76
1077-22P	Lawson, Katelyn	One Alabama Landscape	National Fish and Wildlife Foundation (fed flow)	$106,722.26
1190-22P	Lawson, Katelyn	Prioritization of barriers to connectivity in the Uchee Creek watershed	National Fish and Wildlife Foundation	$323,074.06
	Leisner, Courtney	AU-UTRGV Collaborative: Expanding Latinx/Hispanic Opportunities, Education and Matriculation in Biology	Sloan Foundation	$241,990
0944-22P	Leisner, Courtney	CAREER Genomics-enabled plant physiology to understand climate change impacts on dormancy in perennial cropping systems	NSF	$1,622,223.58

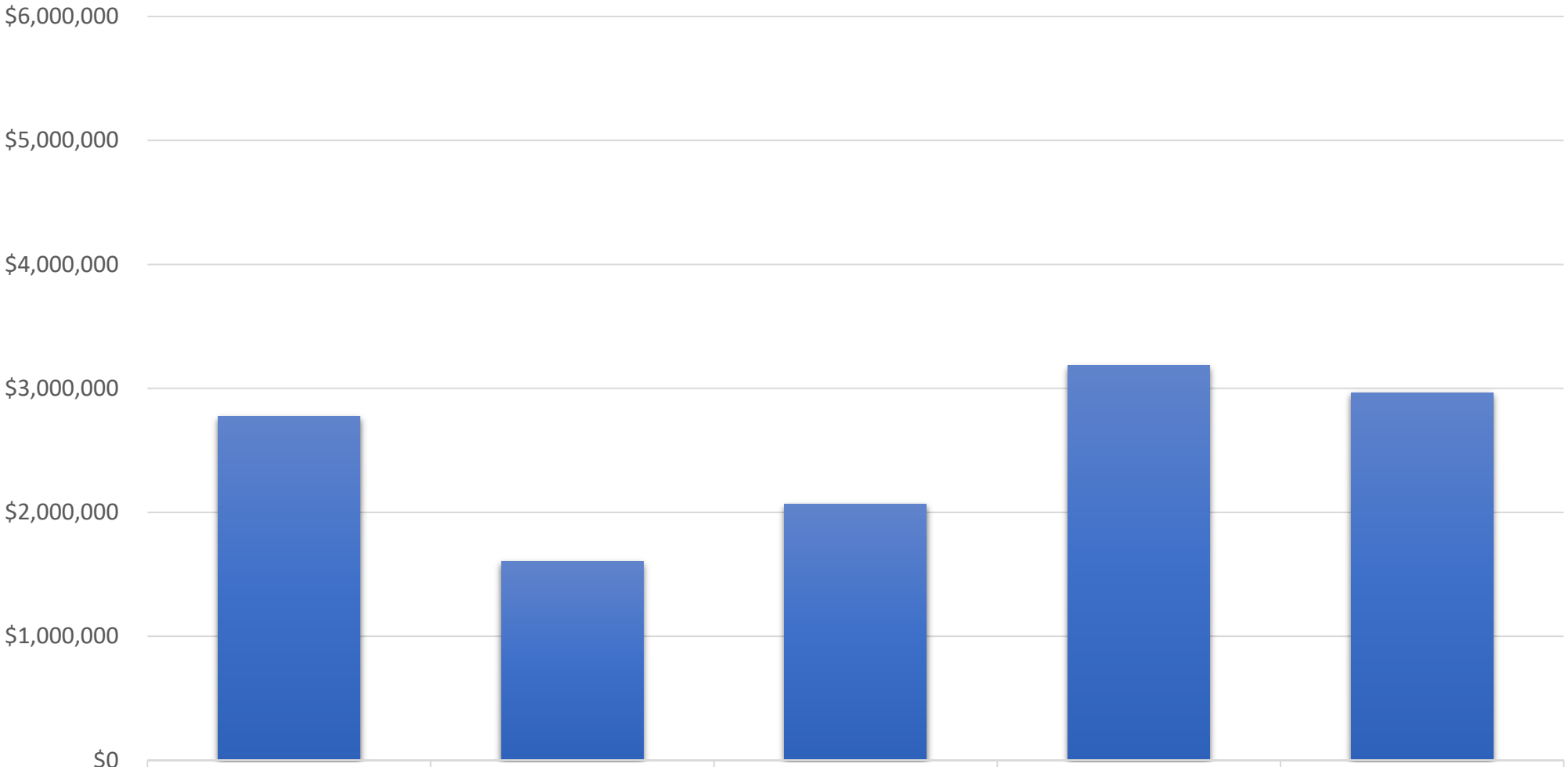
Biological Sciences Proposals Submitted FY22

Proposal ID	PI/COPI	Title	Sponsor	Amount Requested
1438-22P	Leisner, Courtney	Smart Climate Hops: Supporting an Industry under development with Research and Extension	USDA	$744,735.83
0404-22P	Leisner, Courtney/Rashotte, Aaron/Goertzen, Leslie/Jones, Daniel	RaMP: Project KEYSTONE: Keeping Every Young Scientist Trained on Natural Ecosystems	NSF	$2,980,690
0114-22P	Liles, Mark	Development of a Simple and Easy to Use Diagnostic Assay for Rapid Detection of Virulent Strains of Aeromonas hydrophila (vAh)	Varigen Biosciences (pass through of USDA Phase I SBIR)	$58,303.62
0049-22P	Liles, Mark	Synthetic biology solutions for microbial crop protection against fungal and oomycete pathogens	Varigen Biosciences (pass through NSF Phase I STTR)	$153,381
0963-22P	Liles, Mark	Rapid validation of immunogenic targets from hypervirulent Aeromonas hydrophila for development of a recombinant protein vaccine against vMAS in channel catfish (Ictalurus punctatus)	USDA	$296,101
0832-22P	Liles, Mark	Critical upgrades for the curation, organization, and database management of the Auburn University Microbial Collection (AU-PAM)	NSF	$609,524
0586-22P	Oaks, Jamie	Enhancing conservation and captive breeding efforts toward the recovery of the Eastern indigo snake	Florida Fish and Wildlife Conservation Commission	$44,962.49
1147-22P	Oaks, Jamie	CAREER: A process-based, modular, phylogenetic framework for inferring rates and patterns of shared evolutionary events	NSF	$1,432,790.00
	Pendergrass, Morgan	Establishing a scientific basis for managing genetic diversity in botanic garden collections	The Institute of Museum and Library Services	$10,020.00
ANP	Pendergrass, Morgan	On- the-ground management activities for Relict Trillium in Alabama	Atlanta Botanical Garden	$7639.95
0632-22P	Pendergrass, Morgan	Global Tree Conservation Program	The Morton Arboretum	$2,000
0588-22P	Petrov, Alexey	Single-Molecule Analysis of Eukaryotic Translation	NIH	$445,388.40
0640-22P	Petrov, Alexey	Mechanism of Translation Initiation on Leaderless mRNAs	NIH	$406,683.43
432-22P	Rashotte, Aaron	The role of circadian rhythm transcription in plant induced systemic defense responses against drought and environmental stresses.	NSF	$85,631.00
0637-22P	Schotz, Al	Alabama Black Belt Prairie Assessment	ADCNR	$277,160.00

Biological Sciences Proposals Submitted FY22

Proposal ID	PI/COPI	Title	Sponsor	Amount Requested
0316-22P	Schwartz, Tonia	How to get small: Using “island dwarfism” to elucidate shared molecular mechanisms for morphology and life history traits.	NSF	$1,073,792.13
0085-22P	Smith, Michael	Collaborative Research: Collective Comb Building in Constrained Geometries	NSF	$485,462
0293-22P	Smith, Michael	Tuning Social Information: The Collective Effects of Behavioral Spreading in Honey Bees	NSF	$964,989.57
0414-22P	Smith, Michael	The 3-dimensional nest of the honey bee: organization, development, and impact on colony function	NSF	$749,993
0085-22P	Smith, Michael	Collaborative Research: Collective Comb Building in Constrained Geometries	NSF	$485,462.31
1017-22P	Smith, Michael	Honeybee-inspired architectural solutions for irregular hexagonal arrays	Air Force Office of Scientific Research	$449,930.07
1379-22P	Smith, Michael	International collaboration and a “bees-in-the-loop” research design: Combining in-silico modelling and in-vivo experiments to reveal the behavioural rules behind comb building	CB Dennis Trust	$33,013.20
1569-21P	Stevison, Laurie	TBA	NIH	$1,864,043.00
0063-22P	Sztuba-Solinksa, Joanna	Towards the elucidation of RNA elements and RNA-protein interactions that modulate the Zika virus infectious cycle	SUNY	$148,934.79
0092-22P	Upton, Jason	Role of Viral Deubiqitinases in Cytomegalovirus Pathogenesis	NIH	$450,593.02
0234-22P	Wolak, Matthew	Empirically Testing the Fundamental Theorems of Evolution and Natural Selection	NSF	$762,576.88
1169-22P	Wolak, Matthew	CAREER: Empirical tests of the fundamental theorems of evolution and natural selection	NSF	$1,523,634.43
0297-22P	Zhong, Min	Embedding Metacognition into Introductory Biology Courses	University of Wyoming	$4,250.00
TOTAL PROPOSALS: 58			**TOTAL AMOUNT REQUESTED:**	**$28,383,036.16**

Chemistry and Biochemistry
FY 22



	2018	2019	2020	2021	2022
Chemistry and Biochemistry	$2,771,358	$1,604,457	$2,063,606	$3,182,937	$2,964,648

Chemistry and Biochemistry
Extramural Research Grants with New Dollars Received in FY2022

PI NAME	PI/COPI	PROJECT TITLE	SPONSOR	AMOUNT
Christopher Easley	PI	Nucleic Acid Nanostructure Built Thru On-Electrode Ligation For Electrochemical Detection Of Proteins, Peptides & Small Molecules	NIH	$299,242.00
Christopher Easley	PI	Unmasking Mechanisms Of Lipolytic Dynamics In Adipose Tissue Using High-Resolution Microfluidic Sampling	NIH	$418,170.00
Eduardus Duin	PI	Recombinant Methyl-Coenzyme M Reductase In The Methanogenic Archaeon Methanococcus Maripaludis For Examination Of Activation &Role Of Post-Translational Modifications	Department of Energy	$105,090.84
Evangelos Miliordos	PI	State Of The Art Quantum Calculations On A Novel Class Of Super-Atoms	NSF	$11,340.00
Ahmed Hamid/ Christopher Easley	COPI COPI	Detection Canine Applied R&D-Base Period Task 3.1-Develop Recommendations For Best Odor Training Methods	DHS	$309,591.33
Ahmed Hamid/ Christopher Easley	COPI COPI	Detection Canine Applied R&D-Base Period Task 3.3-Develop &Test Training Aids For Existing &Emerging Threats To Enable &Broaden Detection Canine Capabilities	DHS	$307,771.33
Jordan Harshman	PI	Career: Uncovering Faculty Beliefs And Values To Define A Model Of Doctoral Education In Chemistry	NSF	$133,538.00
Konrad Patkowski	PI	Production Of Excited Rovibrational Levels Of Oh For Analysis Of Infrared Observations Of Young Stellar Objects	University of Georgia (fed flow Nasa)	$33,097.00
Ming Chen	PI	Enantioselective Syntheses Of Organoboron Compounds Via Transition-Metal Catalysis	NSF	$420,816.00
Ming Chen	PI	Asymmetric Synthesis Via Organoboron Compounds	NIH	$374,829.00
Rashad Karimov	PI	Graduate Research Fellowship Program For Nathan O'Hare	NSF	$46,000.00
Rashad Karimov	PI	Synthesis Of Partially Saturated Nitrogen Heterocycles Thru Stereo- And Regioselective Dearomatization Of Heteroarenes	NIH	$374,162.00
Steven Mansoorabadi	PI	Mechanistic Studies Of A Primitive Homolog Of Nitrogenase Involved In Coenzyme F430 Biosynthesis	Department of Energy	$109,844.16
		Chemistry and Biochemistry Total:		**$2,964,647.66**

Chemistry and Biochemistry Active Awards FY22

PI	SPONSOR	TITLE	START DATE	END DATE
Chen, Ming	National Science Foundation	NSF-CHE-2042353*	09/01/21	08/31/26
Chen, Ming	National Institute of Health	NIH-1R35GM147523-01	07/01/22	06/30/23
Duin, Eduardus	Dept of Energy	DE-SC0018011	09/01/17	08/31/23
Duin, Eduardus	University of Arkansas	UA-UA2019-63	08/15/18	08/14/23
Duin, Eduardus	Virginia Tech	VT-480645-19158	07/01/21	05/30/24
Easley, Christopher	National Institute of Health	NIH-1R01GM138828-01	09/18/20	07/31/23
Farnum, Byron	National Science Foundation	NSF-CHE-1945160*	07/01/20	06/30/25
Goldsmith, Christian	National Science Foundation	NSF-CHE-1954336	08/01/20	07/31/24
Hamid, Ahmed	National Institute of Health	NIH-1R35GM147225-01	09/22/22	07/31/23
Harshman, Jordan	National Science Foundation	NSF-DUE-1915343	10/01/19	09/30/23
Harshman, Jordan	National Science Foundation	NSF-DGE-2142873	06/01/22	05/31/27
Judd, Christopher	National Institute of Health	NIH-2R01DK093810-08A1	07/01/21	06/30/23
Karimov, Maria	National Science Foundation	NSF-DGE-1937964-NO	06/01/22	05/31/23
Karimov, Rashad	National Institute of Health	NIH-1R35GM147244-01	08/15/22	06/30/23
Mansoorabadi, Steven	National Science Foundation	NSF-CHE-1555138	05/01/16	09/30/22
Mansoorabadi, Steven	Dept of Energy	DE-SC0018043	09/01/17	08/31/22
Mansoorabadi, Steven	Exxon Mobile Research and Engineering	EMRE-LAW-2019-3530	09/15/19	12/31/23

Chemistry and Biochemistry Active Awards FY22

PI	SPONSOR	TITLE	START DATE	END DATE
Mansoorabadi, Steven	Dept of Energy	DE-SC0023451	09/01/22	08/31/23
Merner, Bradley	National Science Foundation	NSF-CHE-1654691	05/01/17	03/31/23
Miliordos, Evangelos	Dept of Energy	DE-SC0019177	09/01/18	08/31/22
Miliordos, Evangelos	National Science Foundation	NSF-CHE-1940456*	09/01/20	08/31/25
Miliordos, Evangelos	National Science Foundation	NSF-CHE-1940456-A2	09/01/20	08/31/25
Mills, German	National Lubricating Grease Institute	NLGI-MILLS	08/31/21	12/31/22
Ortiz, Joseph	National Science Foundation	NSF-CHE-1565760	09/01/16	08/31/22
Patkowski, Konrad	National Science Foundation	NSF-CHE-1955328*	07/01/20	06/30/23
Patkowski, Konrad	University of Georgia	UGA-SUB00002733	09/01/21	08/31/24
Goodwin, Douglas/Pokkuluri, Phani	Medical College of Wisconsin	MCW-eBRIDGE FP0019427	01/01/21	12/31/21
Pokkuluri, Phani	James Madison University	JMU-S22-146-01	08/01/22	06/30/27
Raj, Monika	National Science Foundation	NSF-CHE-1752654	07/01/18	06/30/23
Easley, Christopher/ Wang/Hamid	Dept of Homeland Security	DHS-70RSAT22CB0000002-BP-CHEM-T3.1	01/11/22	01/10/23
Easley, Christopher/Wang/Hamid	Dept of Homeland Security	DHS-70RSAT22CB0000002-BP-CHEM-T3.3	01/11/22	01/10/23
Worley, Shelby	NASA	NASA-80NSSC19K0368-CHEM	04/01/19	12/11/21
Zhan, Wei	National Science Foundation	NSF-CHE-2108243*	08/15/21	07/31/24
*Denotes Participant Support Costs Included		**TOTAL ACTIVE AWARDS: 33**		

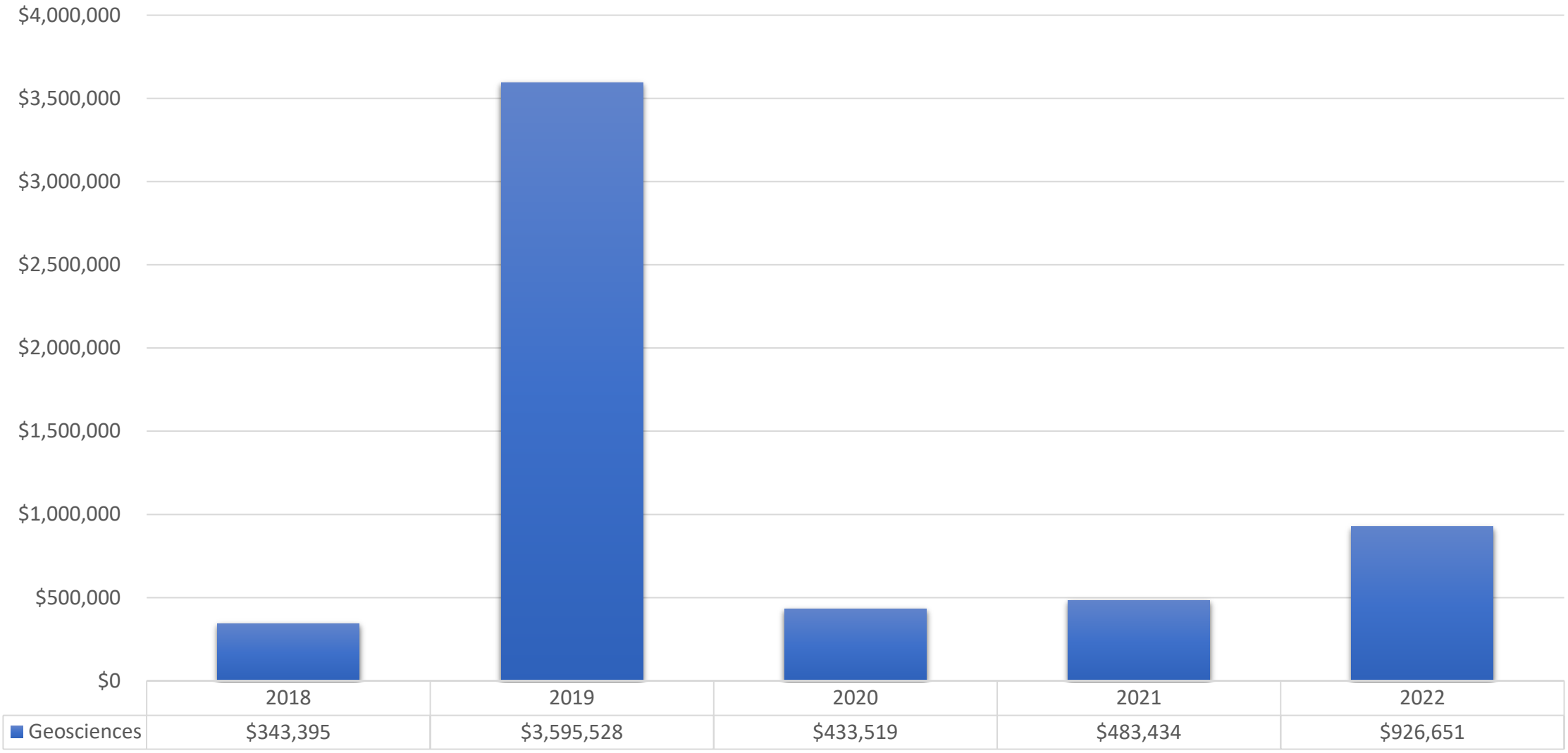
Chemistry and Biochemistry Proposals Submitted FY 22

Proposal ID	PI/COPI	Title	Sponsor	Amount Requested
1530-22P	Boersma, Melissa	Development of an Analytical Method for the Quantification of PFAS from Firefighting Foams Using Fluorine- Functionalized Polymers	DoD	$199,976.55
0059-22P	Boersma, Melissa	DARPA	NOBLIS	$10,290
0303-22P	Boersma, Melissa	Uncovering the molecular basis of growth inhibition during algal treatment of anaerobic digestate	NSF	$341,530.00
1601-21P	Chen, Ming	Asymmetric Synthesis via Organoboron Compounds	National Institute of General Medical Sciences	$1,876,283.20
0344-22P	Duin, E	Understanding Nitrogenase Maturation and Activity in Methanogens	University of Arkansas	$88,564.48
0365-22P	Duin, Eduardus	Living on the Thermodynamic Edge: Mechanisms for Energy Conservation and Electron Flow in Syntrophic Metabolism	University of Oklahoma	$92,851.62
0933-22P	Duin, Eduardus/Steven Mansoorabadi	Creating and testing of genetic tools for the development of microbial systems that can capture carbon dioxide and methane	NSF	$826,376.72
1577-21P	Goldsmith, Christian	The Development of Fluorescent Superoxide Dismutase Mimics and their Application towards Determining How Cellular Localization Impacts Protection against Oxidative Stress	NIH	$1,484,091.07
1493-22P	Goldsmith, Christian	Development and Mechanistic Study of Highly Active Catalase Mimics Containing Redox-Active Organic Components	NSF	$466,845
0571-22P	Grieco, Christopher	2D Infrared Correlation Spectroelectrochemistry of Mixed Ionic-Electronic Conductors	Spectroscopy Society of Pittsburgh	$30,000.00
1600-21P	Hamid, Ahmed	Development of a Portable Ion Mobility Spectrometer for Efficient Detection and Rapid Identification of Foodborne Pathogens	NIH	$1,780,522.24
0660-22P	Harshman, Jordan	The Writing SySTEM: A Systemic Approach to Graduate Writing Instruction and Intervention	NSF	$434,807.00
0034-22P	Hill, Ethan	Cooperative Transition Metal and Non-Trigonal Phosphorus Ligand Mediated Green Oxidation of Hydrocarbons	American Chemical Society	$110,000.00
1576-21P	Karimov, Rashad	Dearomative synthesis of partially saturated nitrogen heterocycles	NIH MIRA/R35	$1,870,810.00

Chemistry and Biochemistry Proposals Submitted FY 22

Proposal ID	PI/COPI	Title	Sponsor	Amount Requested
0113-22P	Mansoorabadi, Steven	Mechanistic and Biosynthetic Studies of Dinoflagellate Bioluminescence	NSF	$487,247.00
0387-22P	Mansoorabadi, Steven	Mechanistic Studies of a Primitive Homolog of Nitrogenase Involved in Coenzyme F430 Biosynthesis	DOE	$699,213.32
0112-22P	Miliordos, Evangelos	CAREER: State-of-the-art Quantum Calculations on a Novel Class of Super-atoms: Discovering Exotic Chemical Bonding Schemes and Proposing New Two and Three Dimensional Materials	NSF	$11,340.00
1314-22P	Ohno, Paul	Potential impacts of emerging building and urban envelopes on air quality	Schmidt Science Fellows	$2,500.00
0668-22P	Pawlowski, Filip	Molecular Response Properties from Novel Cluster-Perturbation Theory on Exascale Platforms	DOE	$1,897,511.16
0207-22P	Pokkuluri, Raj	RUI: Molecular Mechanisms of Short-Range Electron Transfer in Metalloproteins	James Madison University	$21,155.88
1463-22P	Worley, Shelby	Mitigation and Prevention of Biofouling and Biofilm Growth in Wastewater Processing Assembly	NASA	$5,134.00
TOTAL PROPOSALS: 21			**TOTAL AMOUNT REQUESTED:**	**$12,737,043.24**

Geosciences
FY 22



	2018	2019	2020	2021	2022
Geosciences	$343,395	$3,595,528	$433,519	$483,434	$926,651

Geosciences
Extramural Research Grants with New Dollars Received in FY2022

PI NAME	PI/COPI	PROJECT TITLE	SPONSOR	AMOUNT
Ann Ojeda	PI	Ala Water Resources Resch Inst	USGS	$9,925.29
Ann Ojeda	PI	Harnessing Citizen-Science To Understand Stressors On Groundwater Quality In The Alabama Gulf Coast	Dauphin Island Sea Lab (fed flow)	$108,892.50
Chandana Mitra	PI	Multi-Scalar Analysis Of Urban-Influenced Hydrometeorological Processes	University of Georgia (Fed Flow Nasa)	$65,479.00
Jake Nelson				$16,160.00
Karen McNeal	PI	Graduate Research Fellowship Program For Stephanie Courtney	NSF	$5,000.00
Karen McNeal	PI	Ala Water Resources Research Inst	USGS	$4,999.80
Karen McNeal	PI	Developing A Diverse Research Workforce With Expertise In Hydrological Climate Events In The Upland Watersheds Of The Northern Gulf Of Mexico (Hydroclimate-Au)	USGS	$180,000*
Karen McNeal	PI	Effectively Addressing Natural Resource Management Needs	NC State University (Fed flow USGS)	$37,017.06
Karen McNeal	PI	Hosting The SE Climate Science Center-Year 6	NC State University (fed flow USGS)	$15,000.00
Laura Bilenker	PI	Characterizing Iron Deposits In Puerto Rico To Elucidate Metal Transport & Magnetite Mineralization Processes In Skarn Systems	NSF	$257,214.00
Lorraine Wolf	PI	Graduate Research Fellowship Program For Akilah Alwan	NSF	$21,504.43

Geosciences
Extramural Research Grants with New Dollars Received in FY2022

PI Name	PI/COPI	PROJECT TITLE	SPONSOR	AMOUNT
Luke Marzen	PI	Gis Fellowship For City Of Auburn	Auburn GIS Fellow (non Fed)	$15,000.00
Luke Marzen/ Chandana Mitra	PI COPI	State View Program Development & Ops For State Of Alabama	USGS	$23,500.00
Richard Vachula	PI	Second Century Stewardship Research Fellowship	Scoodic Inst at Acadia National Park (non fed)	$19,912.00
Stephanie Rogers/ Ann Ojeda	PI COPI	Integrating Geospatial & High-Res Water Quality Data To Understand Contamination From Onsite Disposal Systems	ADCNR	$49,690.00
		Geosciences Count:	**Accounts:** **Individual Awards:**	
		Geosciences Total:		**$926,651.08**
*Denotes Participant Support Costs Included				

Geosciences Active Awards FY22

L	SPONSOR	TITLE	START DATE	END DATE
Bilenker, Laura	National Science Foundation	NSF-EAR-2217927	08/01/22	07/31/25
Chaney, Philip	University of Alabama Huntsville	UAH-2021-1313-GEO	01/15/21	10/15/22
Chaney, Philip/ Burton, Christopher	Lee County EMA	LEE CO EMA-TORNADO SHELTER	08/15/17	
Hanqin, Tian	North Carolina State University	NCSU-2017-1878-05	08/01/18	07/31/22
Marzen, Luke	City of Auburn	AUBURN GIS FELLOW-22	08/15/21	08/14/22
Marzen, Luke	City of Auburn	AUBURN-GIS FELLOW-21	08/15/20	
McNeal, Karen	North Carolina State University	NCSU-2020-2689-01	05/01/20	03/31/22
McNeal, Karen	National Science Foundation	NSF-DGE-1414475-EJ	06/01/18	12/31/21
McNeal, Karen	National Science Foundation	NSF-DGE-1937964-SC	09/01/19	12/31/22
McNeal, Karen	National Science Foundation	NSF-DGE-1937964-EJ	09/01/19	05/31/23
McNeal, Karen	North Carolina State University	NCSU-2017-1878-05-Y5	08/01/21	07/31/23
McNeal, Karen	National Science Foundation	NSF-DUE-2043990-GEO	07/01/21	06/30/24
McNeal, Karen	North Carolina State University	NCSU-2020-0455-01	10/01/19	09/30/23
McNeal, Karen	US Geological Survey	USGS-G21AP10596-00-KM	09/01/21	08/31/22
McNeal, Karen	US Geological Survey	USGS-G22AC00083-00*	03/01/22	02/29/24
McNeal, Karen	North Carolina State University	NCSU-2020-2689-01-A1	04/01/22	02/28/24
McNeal, Karen/Tian, Hanqin	North Carolina State University	NCSU-2017-1878-05-Y6	08/01/22	07/31/23
Medina-Elizalde, Martin	National Science Foundation	NSF-AGS-1903132	07/15/19	06/30/22
Mitra, Chandana	University of Georgia	UGA-SUB00002502	07/02/20	07/01/24

Geosciences Active Awards FY22

PI	SPONSOR	TITLE	START DATE	END DATE
Mitra, Chandana/ Burton, Christopher	National Science Foundation	NSF-DGE-1922687*	09/01/19	08/31/24
Mitra, Chandana/Luke, Marzen	AmericaView Inc	AVI-AV18-AL-01-GY21	09/18/21	09/17/22
Mitra, Chandana/Marzen, Luke	AmericaView Inc	AVI-AV18-AL-01-GY22	09/18/22	09/17/23
Nelson, Jake	Arizona State University	AZ ST UN-ASUB00000979	06/10/21	06/09/22
Nelson, Jake	US Geological Survey	USGS-G21AP10596-01-JN	09/01/22	08/31/23
Ojeda, Ann	National Science Foundation	NSF-EAR-2051747*	07/01/21	06/30/23
Ojeda, Ann	US Geological Survey	USGS-G21AP10596-00-AO	09/01/21	08/31/22
Ojeda, Ann	US Geological Survey	USGS-G21AP10596-00-AO2	09/01/21	08/31/22
Ojeda, Ann/Lee, Ming Kuo/ Bilenker, Laura	Electric Power Research Institute	EPRI-10015589	08/22/22	12/31/22
Rogers, Stephanie/Ojeda, Ann	AL Dept of Conservation and Natural Resources	ADCNR-AUBURN-CZM-306-20-1	10/01/21	09/30/22
Rogers, Stephanie/Ojeda, Ann	Dauphin Island Sea Lab	DISL-MESC-ALCOE-05	10/01/21	04/30/25
Rogers, Stephanie/Ojeda, Ann	Dauphin Island Sea Lab	DISL-MESC-ALCOE-05-KITS	10/01/21	04/30/25
Savrda, Charles	American Chemical Society	ACS-PRF 57720-UR8	07/01/17	08/31/22
Vachula, Richard	Schoodic Institute at Acadia National Park	SIANP-2ND CENTURY STEWARDSHIP	06/01/22	06/30/23
Wolf, Lorraine	National Science Foundation	NSF-DGE-1937964-AA	06/01/20	05/31/23
Zou, Haibo	American Chemical Society	ACS-PRF 57500-UR2	09/01/17	08/31/23
*Denotes Participant Support Costs included		**TOTAL ACTIVE AWARDS: 35**		

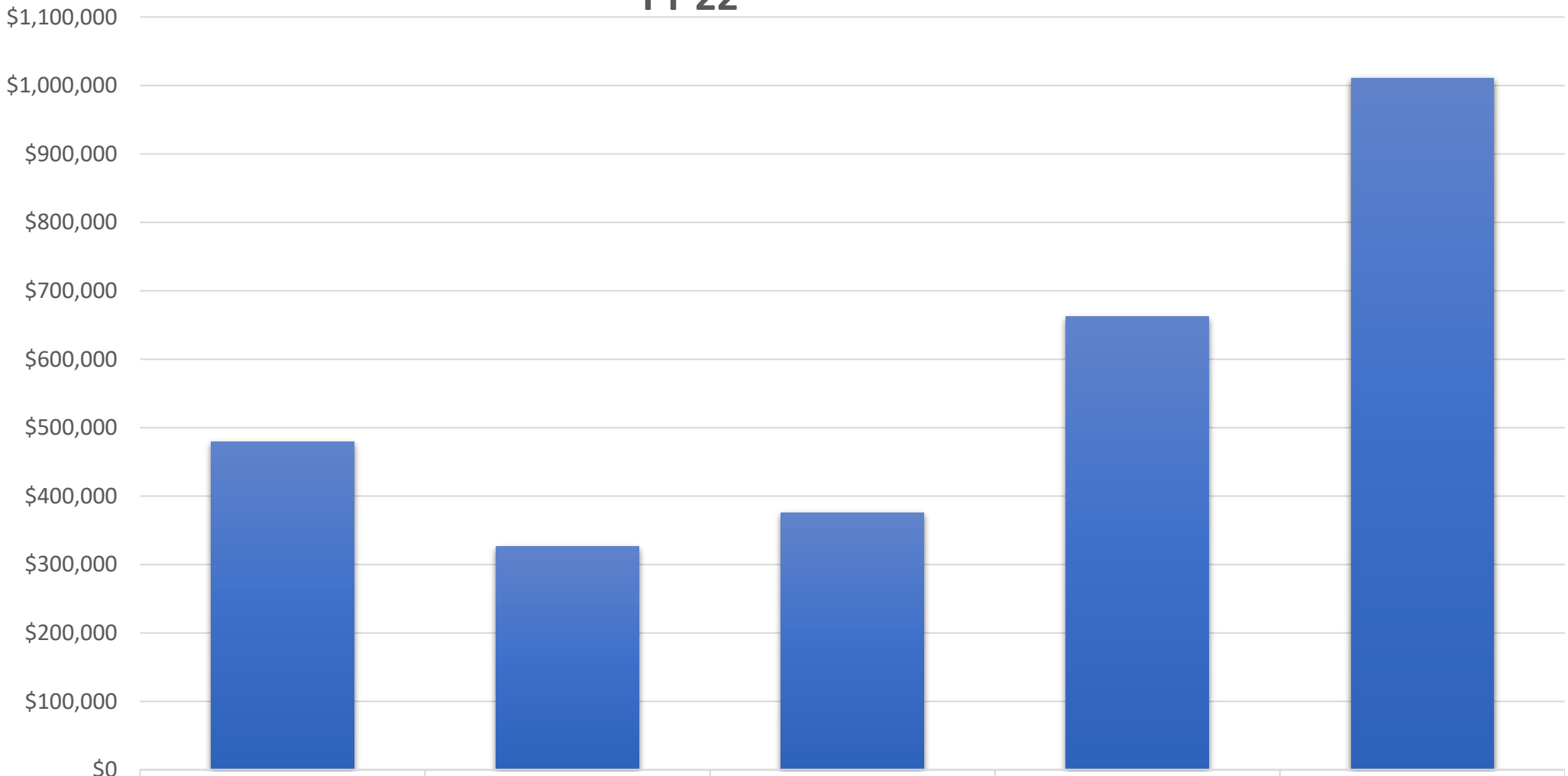
Geosciences Submitted Proposals FY22

Proposal ID	PI/COPI	Title	Sponsor	Amount Requested
0450-22P	Bilenker, Laura	Characterizing Iron Deposits in Puerto Rico to Elucidate Metal Transport and Magnetite Mineralization Processes in Skarn Systems	NSF	$257,614.00
0318-22P	King, David	Mesozoic and Cenozoic stratigraphy of Belize	NSF	$889,259.52
1451-22P	King, David	Optimizing Alabama's CO2 Storage in Shelby County (OASIS) CarbonSAFE (Phase II) Project	SSEB / DoE	$199,551.05
0673-22P	Marzen, Luke/Mitra, Chandana	StateView Program Development and Operations for the State of Alabama	AmericaView/USGS	$23,500.00
1018-22P	Marzen Luke	City of Auburn GIS Fellowship 2022-2023 Academic Year	City of Auburn	$15,000.00
0566-22P	McNeal, Karen	DBER-Establishing a multidisciplinary discipline-based education research postdoc training program in science and mathematics	NSF	$1,248,980
0622-22P	McNeal, Karen	Hosting the SE Climate Center - Year 6 Funding	NC State/USGS	$15,000.00
	McNeal, Karen	AWRRI Student Award - Tyler Smith	AL Water Resources Research Institute	$4,999.80
0481-22P	Mitra, Chandana	Linkages between Forest Transitions and Urbanization and their Effects on Climate, Water, and Biodiversity in South Asia: A Synthesis	Yale University (NASA flow)	$99,977.22
0836-22P	Mitra, Chandana	Planning: CIVIC Track A - Empowering Community with Energy Efficiency and Independence (ECEEI): Alabama and Beyond	NSF	$49,999.30
1224-22P	Mitra, Chandana	Workshop in Mauritius: Training farmers about land use landcover change and resiliency to climate change	U.S. Dept of State, U.S Embassy to Mauritius & Seychelles	$24,000.00
1375-22P	Mitra, Chandana	PV Tracking/Sizing and Crop Design for Maximum Value Return in Southeast Utility-Scale Agrivoltaics	Sofos Harbert Renewable Energy (DoE Flow)	$485,068.00
0162-22P	Nelson, Jake	Expanding and Improving NYMPHS with Multi-Sourced Remotely Sensed Data	Arizona State University	$16,159.64
0196-22P	Nelson, Jake	Is Your Water Well? Impacts of Extreme Flooding on Health And Community Resilience For Private Well Owners In The Gulf Coast	EPA	$1,349,151.93

Geosciences Submitted Proposals FY22

Proposal ID	PI/COPI	Title	Sponsor	Amount Requested
0589-22P	Nelson, Jake	Building a private well contamination risk model to reduce environmental inequity	Alabama Water Resources Research Institute	$72,177.48
	Ojeda, Ann	Sequestration of Molybdenum through Bioremediation	EPRI	$197,949.24
0345-22P	Ojeda, Ann	NAS Early-Career Research Fellowship	NAS Gulf Research Program	$76,000.00
0850-22P	Ojeda, Ann	Using chemometrics to understand climatic and lithologic controls on PFAS occurrence in groundwater	USGS	$249,866.38
	Ojeda, Ann	AWRRI Student Award - Caitlyn Herron	AL Water Resources Research Institute	$4,935.00
	Ojeda, Ann	AWRRI Student Award - Ella Larson	AL Water Resources Research Institute	$4,990.29
0781-22P	Rogers, Stephanie	ADEM – Utilizing Remote Sensing and GIS to Investigate Potential Pathogen Sources in the Upper Uphapee Creek Watershed	AL Dept of Environmental Management	$124,983.40
1141-22P	Shepherd, Stephanie	Inclusive Design for Enhancing Active Learning in STEM (IDEALS) Program	NSF	$599,867.01
1496-22P	Shepherd, Stephanie	UTEACH	UTEACH	$4,285,000.00
066-22P	Vachula, Richard	Collaborative Research: Determining the climatic and anthropogenic controls of fire in the mid-Atlantic U.S. during the Holocene	NSF - Paleo Perspectives on Climate Change	$285,694.67
	Vachula, Richard	Using the past to inform modern and future wildfire in Acadia National Park	Second Century Stewardship	$19,912.00
0485-22P	Vachula, Richard	Paleoecological constraints on fire driven aquatic-terrestrial connectivity in the southeastern United States	NSF	$509,848.00
1361-22P	Vachula, Richard	Paleoecological constraints on fire driven aquatic-terrestrial connectivity in the southeastern United States	NSF	$587,800.00
0607-22P	Vachula, Richard	Characterizing black carbon in lacustrine sediments as an analog for inertinite in Type I kerogen	American Chemical Society Petroleum Research Fund	$110,000
TOTAL PROPOSALS: 28			**TOTAL AMOUNT REQUESTED:**	**$11,807,283.93**

Mathematics and Statistics
FY 22



	2018	2019	2020	2021	2022
Mathematics and Statistics	$479,395	$325,978	$375,554	$661,817	$1,011,106

Mathematics and Statistics
Extramural Research Grants with New Dollars Received in FY2022

PI NAME	PI/COPI	PROJECT TITLE	SPONSOR	AMOUNT
David Carpenter	PI	Quantification Of Confidence Level Of Fy21 Missile Models Performance	DOD	$100,000.00
Elvan Ceyhan	PI	Adversarial Risk Analysis For Optimal Obstacle Evasion	Navy	$91,725.00
Elvan Ceyhan	PI	Graph Theoretic Learning & Spatial Methods	Simons Foundation	$8,400.00
Erkan Nane	PI	Space-Time Fractional Dynamics	Simons Foundation	$8,400.00
Erkan Nane	PI	Groundwater 2070 In Baldwin County Alabama Under A Changing Climate & Threatened By Seawater Intrusion: From Sustainability To Vulnerability	University of Alabama (fed flow)	$16,667.00
Guanqun Cao	PI	Statistical Learning In Next Gen Of Functional Data Analysis	Simons Foundation	$8,400.00
Hannah Alpert	PI	Disk Configuration Spaces & Macroscopic Scalar Curvature	Simons Foundation	$8,400.00
Huajun Huang/ Hans Werner Van Wyk	PI COPI	Developing, Recruiting & Empowering Alabama Mathematics Teachers	NSF	$261,000.00
Jessica McDonald	PI	Colouring & Structure In Graphs	Simons Foundation	$8,400.00
Jingyi Zheng	PI	Towards A Manifold-Based Framework For Brain-Computer Interface	NSF	$174,964.00
Jingyi Zheng	COPI	Detection Canine Applied R&D-Base Period Task 2.1-Optimize Early Dvlmt & Training Practices	DHS	$1,691.00
Junshan Lin	PI	Imaging & Sensing Via Plasmonic Nanohole Resonance	NSF	$72,965.00
Le Chen	PI	Frontier Probability Days Conference Attendance	NSF	$32,000.00
Le Chen	PI	Asymptotics For Stochastic Partial Differential Equations	Simons Foundation	$8,400.00
Melinda Lanius	PI	Promoting Success In Mathematical Enrichment Thru Graduate Teaching Assistant & Undergrad Pre-Service Teacher Training	Mathematical Association of America (non fed)	$5,000.00
Thi Thao Phuong Hoang	PI	Efficient & Accurate Local Time-Stepping Algorithms For Multiscale Multiphysics Systems	NSF	$89,294.00
Xiaoying Han	PI	Stochastic Dynamical Systems Arising From The Applied Sciences	Simons Foundation	$7,000.00
Xiaoying Han	PI	Applied Dynamical Systems In Biological, Computational & Engineering Models	Simons Foundation	$8,400.00
Yanzhao Cao	PI	Reliable &Efficient Machine Learning For Leadership Facility Scientific Data Analytics	Dept of Energy	$100,000.00
		Mathematics and Statistics Total:		**$1,011,106**

Mathematics and Statistics Active Awards

PI	Sponsor	Title	Start Date	End Date
Alpert, Hannah	Simons Foundation	SIMONS FDN-965348	09/01/22	08/31/23
Cao, Guanqun	Simons Foundation	SIMONS FDN-849413	09/01/21	08/31/23
Cao, Yanzhao	Dept of Energy	DE-SC0022253	09/01/21	08/31/23
Cao, Yanzhao/Lin/Werner van Wyk/Hoang	National Science Foundation	NSF-DMS-1949953-PSC	01/01/20	12/31/22
Carpenter, David	Parsons Government Service	PGS-PO-0012480-TO35-MS-LBR	09/26/22	09/06/23
Carpenter, David	Parsons Government Service	PGS-PO-0012480-TO35-MS-TRV	09/26/22	09/06/23
Carpenter, David	Simons Foundation	SIMONS FDN-845698	09/01/21	08/31/23
Carpenter, David	Parsons Government Service	PGS-PO-0008047-TO 192-M&S-LBR	09/07/21	08/30/22
Carpenter, David	Parsons Government Service	PGS-PO-0008047-TO 192-M&S-TRV	09/07/21	08/30/22
Carpenter, David	Parsons Government Service	PGS-PO-0008047-TO 193-M&S-LBR	09/16/21	09/06/22
Carpenter, David	Parsons Government Service	PGS-PO-0008047-TO 193-M&S-TRV	09/16/21	09/06/22
Ceyhan, Elvan	US Navy	NAVY-N00014-22-1-2572	07/01/22	06/30/25
Ceyhan, Elvan	Simons Foundation	SIMONS FDN-855850	09/01/21	08/31/23
Chen, Le	Simons Foundation	SIMONS FDN-959981	09/01/22	08/31/23
Han, Xiaoying	Simons Foundation	SIMONS FDN-964968	09/01/22	08/31/23
Hoang, Thi	National Science Foundation	NSF-DMS-2041884	09/01/21	08/31/26
Hoang, Thi	National Science Foundation	NSF-DMS-1912626	08/01/19	07/31/23
Huang, Huajun	National Science Foundation	NSF-DUE-1950251-M&S	04/15/20	03/31/22
Huang, Huajun/Werner Van Wyk	National Science Foundation	NSF-DUE-2151040-M&S	04/01/22	03/31/28
Lanius, Melinda	Mathematical Association of America	MATHEMATICAL ASSN AM	05/03/22	08/31/23
Lanius, Melinda/Jenda /Merchant/Billor	National Science Foundation	NSF-DUE-1821460*	10/01/18	09/30/23

Mathematics and Statistics Active Awards

PI	Sponsor	Title	Start Date	End Date
Lin, Junshan	National Science Foundation	NSF-DMS-2011148	09/01/20	08/31/23
McDonald, Jessica	Simons Foundation	SIMONS FDN-845698	09/01/21	08/31/23
Molinari, Roberto	Purdue University	PURDUE-10002092-002	08/15/22	07/31/25
Nane, Erkan	Simons Foundation	SIMONS FDN-853651	09/01/21	08/31/23
Nane, Erkan	University of Alabama	UAT-A22-0126-S001	01/01/22	08/31/22
Oeding, Luke	Embassy of France	EMBASSY OF FRANCE	09/01/20	08/31/24
Schenck, Henry	National Science Foundation	NSF-DMS-2006410	03/01/21	02/29/24
Schenck, Henry	National Science Foundation	NSF-DMS-2048906	02/15/21	12/31/21
Zheng, Jingyi	National Science Foundation	NSF-CCF-2153492	05/01/22	04/30/24
Zheng, Jingyi	Dept of Homeland Security	DHS-70RSAT22CB0000002-BP-M&S-T4	01/11/22	01/10/23
Zheng, Jingyi	Dept of Homeland Security	DHS-70RSAT22CB0000002-BP-M&S-T5	01/11/22	01/10/23
Zheng, Jingyi	Dept of Homeland Security	DHS-70RSAT22CB0000002-BP-M&S-T6	01/11/22	01/10/23
Zheng, Jingyi	Dept of Homeland Security	DHS-70RSAT22CB0000002-BP-M&S-T7.1	01/11/22	01/10/23
Zheng, Jingyi	Dept of Homeland Security	DHS-70RSAT22CB0000002-BP-M&S-T2.1	01/11/22	01/10/23
Zheng, Jingyi	Dept of Homeland Security	DHS-70RSAT22CB0000002-BP-M&S-T3.1	01/11/22	01/10/23
Zheng, Jingyi	Dept of Homeland Security	DHS-70RSAT22CB0000002-BP-M&S-T3.3	01/11/22	01/10/23
*Includes Participant Support Cost		**TOTAL ACTIVE AWARDS: 37**		

Mathematics and Statistics Submitted Proposals FY22

Proposal ID	PI/COPI	Title	Sponsor	Amount Requested
0459-22P	Alpert, Hannah	Disk configuration spaces and macroscopic scalar curvature	Simons Foundation	$42,000.00
1537-22P	Alpert, Hannah	Phase Transitions in Homology of Configuration Spaces	Johnson & Johnson	$150,000.00
	Brown, Michael	Exterior methods in multigraded commutative algebra	NSF	$233,380.00
0388-22P	Brown, Michael	Exterior methods in multigraded commutative algebra	Simons Foundation	$42,000.00
0281-22P	Cao, Guanqun	Modern Machine Learning for Functional Data Analysis	NSF	$179,664.00
1055-22P	Cao, Guanqun	Medical Imaging Data Classification via Deep Neural Network	Center for Clinical and Translational Science at UAB	$19,830.00
1160-22P	Cao, Guanqun	Improving forest sustainability in the Southeastern US through synergistic use of Earth Observation data	USDA	$467,557.48
0241-22P	Cao, Yanzhao	Collaborative Research: Sample-wise Back-propagation Method for Uncertainty Quantification in Deep Learning	NSF	$141,062.73
0965-22P	Cao, Yanzhao	RTG: Data Science, Statistics and Machine Learning at Auburn: building knowledge and skills of the next generation	NSF	$2,000,000
1268-22P	Carpenter, Mark	Physics Informed Modeling for UAV Threats	RIF	
1357-21P	Carpenter, Mark	Quantification of Confidence Level of FY21 Missile Models	Parsons Govt. Services Inc.	$100,000.00
1294-21P	Carpenter, Mark	Solid-Propellent Motor Analysis	Parsons Govt. Services Inc.	$84,849.00
1178-22P	Carpenter, Mark	Quantification of Confidence Level of FY22 Missile	Parsons Govt. Services Inc.	$285,000.00
0057-22P	Ceyhan, Elvan	Adversarial Risk Analysis for Optimal Obstacle Evasion	Office of Naval Research	$358,005.00

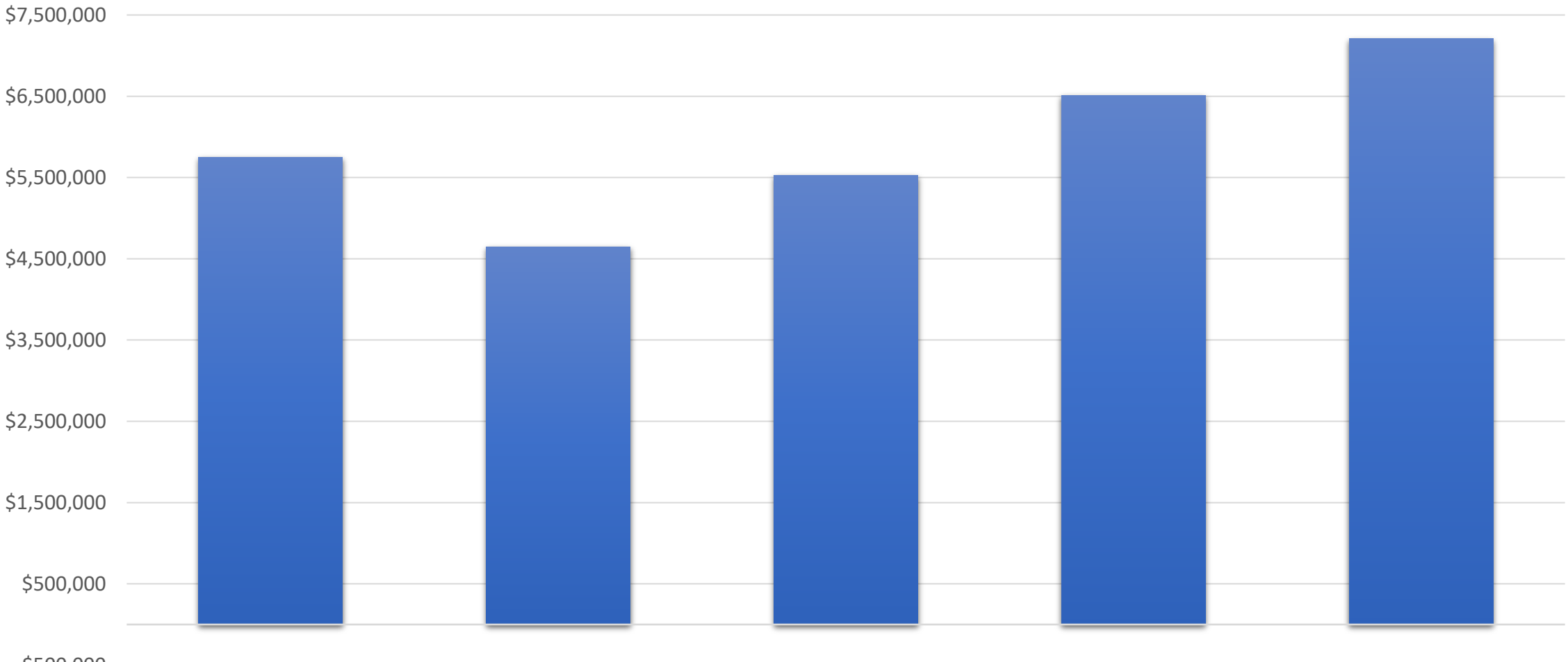
Mathematics and Statistics Submitted Proposals FY22

Proposal ID	PI/COPI	Title	Sponsor	Amount Requested
0312-22P	Ceyhan, Elvan	Imbalanced Classification with Random Geometric Graphs	NSF	$625,640.63
0568-22P	Ceyhan, Elvan	Network Optimazation for Stochastic Obstacle Scene Problem	DOD - USAF - AFOSR - Air Force Office of Scientific Research	$593,320.93
1523-22P	Chen, Le	Studies of the Stochastic Partial Differential Equations	NSF	$499,692.00
1194-22P	Chen, Le	Asymptotics for stochastic partial differential equations	NSF	$673,309.28
1523-22P	Chen, Le	CAREER Studies of the Stochastic Partial Differential Equations	NSF	$499,693.00
1602-21P	Chen, Le	Frontier Probability Days (Transfer from Emory)	NSF	$32,000.00
0417-22P	Chen, Le	Asymptotics for partial differential equations	Simons Foundation	$42,000.00
0014-22P	Feng, Ziqin	Applications of Tukey order in classifying Topological Spaces/Groups	NSF	$185,430.14
0456-22P	Feng, Ziqin	Applications of Tukey order in classifying Topological Spaces/Groups	Simons Foundation	$42,000.00
0438-22P	Han, Xiaoying	Applied dynamical systems in biological, computational, and engineering models	Simons Foundation	$42,000.00
0253-22P	Lanius, Melinda	On the Capacity of Remote Learning Technologies to Support Conceptual Understanding Over Rote Memorization	Spencer Foundation	$59,090.00
0534-22P	Lanius, Melinda	Promoting Success in Mathematical Enrichment Through Graduate Teaching Assistant and Undergraduate Pre-Service Teacher Training	Mathematical Association of America	$5,000.00
0678-22P	Lanius, Melinda	Utilizing a Contemporaneous Measurement of Math Anxiety in the Undergraduate STEM Classroom	NSF	$347,358.91
	Lanius, Melinda	Developing a heart rate variability statistic for measuring math anxiety in the undergraduate classroom	Auburn University	
1156-22P	Molinari, Roberto	CAREER-Robust and Scalable Inference for Complex Dependent Data	NSF	$431,261

Mathematics and Statistics Submitted Proposals FY22

Proposal ID	PI/COPI	Title	Sponsor	Amount Requested
0979-22P	Oeding, Luke	NSF ExpandQISE: Building Foundations of Quantum Computing and Machine Learning in Alabama	NSF	$800,000.00
1332-22P	Schenck, Henry	Computational Algebraic Geometry: Applications to Physics and Topological Data Analysis	Simons Foundation	$130,000.00
0181-22P	Shen, Wenxian	Propagation phenomena and persistence in biological systems under chemoattractants and/or climate change	NSF	$277,383.00
0153-22P	Sukhtaiev, Selim	Existence, stability and spreading of nonlinear waves on networks	NSF	$185,958.05
0419-22P	Sukhtaiev, Selim	Existence, stability and spreading of nonlinear waves on networks	Simons Foundation	$42,000.00
1306-22P	Sukhtaiev, Selim	Joint Alabama--Florida Conference on Differential Equations, Dynamical Systems and Applications	NSF	$26,010.00
1505-22P	Sukhtaiev, Selim	Index Theorems in Analysis, Mathematical Physics, and Spectral Theory	NSF	$193,582.00
0289-22P	Zeng, Peng	On the Large-n-large-p Asymptotics for Generalized Linear Models	NSF	$284,147.00
0442-22P	Zeng, Peng	Statistical Inference for High-Dimensional Generalized Linear Models	Simons Foundation	$42,000.00
1552-22P	Zhang, Yuming	Regularity and asymptotic properties of some partial differential equations	NSF	$317,815.00
0389-22P	Zheng, Jingyi	Developing and Testing a novel Bayesian model of human spatial navigation	University of Arizona	$40,601.32
1068-22P	Zheng, Jingyi	Scalp EEG denoising via functional independent component analysis	Center for Clinical and Translational Science (UAB)	$19,996.00
0540-22P	Zheng, Jingyi	EDGE CMT: Genomic, metagenomic, & material transcriptomic determinants of canine behavior	NSF	$2,205,186.00
0516-22P	Zheng, Jingyi	Team Science Approach to Care of Patients with Mitral Regurgitation	University of Alabama Birmingham	$1,013,740.00
TOTAL PROPOSALS: 43			**TOTAL AMOUNT REQUESTED:**	**$13,717,562.47**

Physics
FY 22



	2018	2019	2020	2021	2022
Physics	$5,752,680	$4,647,984	$5,526,497	$6,511,948	$7,209,799

Physics
Extramural Research Grants with New Dollars Received in FY2022

PI NAME	PI/COPI	PROJECT TITLE	SPONSOR	AMOUNT
Allen Landers	PI	Times Microwave Systems Cobalt Services	Times Microwave Systems (Corp)	$1,585.50
Allen Landers	PI	Carlisle Interconnect Technologies Cobalt Services	Carlisle Interconnect Technologies (Corp)	$20,158.50
Allen Landers	PI	Times Microwave Systems Vacuum Radiation Test	Times Microwave Systems (Corp)	$2,567.00
Christopher Mehta/ Evdokiya Kostadinova	PI COPI	Formation Of Organic Compounds Through Meteoritic Atmospheric Shock	Department of Energy	$68,156.87
David Maurer/ David Ennis/ John Schmitt	PI COPI COPI	Three-Dimensional Equilibrium Stability &Its Impact On Edge Transport &Divertor Performance In Wendelstein 7-X	Department of Energy	$392,104.95
Dennis Bodewits	PI	Unravel Photon & Electron Processes & Their Interaction With Coma Of 67p Churyumov-Gerasimenko	NASA	$184,874.00
Dennis Bodewits	PI	Neil Gehrels-Swift Observatory Catalogue Of UV Spectra Of Asteroids	NASA	$26,160.37
Dennis Bodewits	PI	Characterizing The Distant Activity Evolution Of Comet C 2017 K2	NASA	$39,998.74
Dennis Bodewits	PI	Using Nicer To Study The Solar Wind Interaction With The Rare Co-Rich Comet C 2017 K2	NASA	$43,942.11
Dennis Bodewits	PI	Close Encounter With Comet 46p Wirtanen	Space Telescope Science Institute (Nasa flow)	$9,829.00
Dennis Bodewits	PI	Composition & Physical Processes Of Inner Coma Of Comet 46p-Wirtanen	Space Telescope Science Institute	$57,683.00
Dennis Bodewits	PI	Comet Outburst Target Of Opportunity	Space Telescope Science Institute	$15,800.00
Dennis Bodewits	PI	Hst-Cos Chemical Inventory &Activity Of Interstellar Object 2i Borisov	Space Telescope Science Institute	$27,880.00
Dennis Bodewits	PI	Detecting Water On Metallic M-Type Asteroids In The Far-Uv	Space Telescope Science Institute	$11,486.00
Dennis Bodewits	PI	The Return Of Rosetta'S Comet 67p Churyumov-Gerasimenko	Space Telescope Science Institute	$48,921.00
Dennis Bodewits	PI	Characterizing The Aftermath Of Mega-Outbursts Of Centaur 29p	Space Telescope Science Institute	$92,160.00
Dennis Bodewits	PI	Determining The Coma Contents Of The Incoming Oort Cloud Comet C 2014 Un271	Space Telescope Science Institute	$9,256.00
Dennis Bodewits	PI	First Detection Of Volatiles From A Main-Belt Comet	Space Telescope Science Institute	$14,247.00

Physics
Extramural Research Grants with New Dollars Received in FY2022

PI NAME	PI/COPI	PROJECT TITLE	SPONSOR	AMOUNT
Edward Thomas	PI	Support For 2022 Eclipse Meeting	National Science Foundation	$83,266*
Edward Thomas/ Uwe Konopka	PI COPI	Magnetized Plasma Resch Lab As A Doe Plasma Science Facility	Department of Energy	$561,495.10
Edward Thomas/ David Maurer/ Evdokiya Kostadinova/ Joseph Perez/ Mary Ewald/ Uwe Konopka/ Xueyi Wang/ Yu Lin	PI/ COPI	Future Technologies Enabled By Plasma Processes	UAH	$559,997.00
Edward Thomas	PI	Connecting The Plasma Universe To Plasma Technology In Ala	UAH (fed flow)	$599,580*
Evdokiya Kostadinova	PI	Hypervelocity Impact In Stellar Media: Heat Shielding, Shock Fronts & Ablation Clouds	Department of Energy	$67,885.60
Evdokiya Kostadinova	PI	Onset Of Turbulence In Dusty Plasma Liquids	Baylor University (NSF Flow)	$47,876.00
Guillaume Laurent	PI	Delivery Of Anti-Fungal Dsrna Into Yeast And Filamentous Fungi Using Laser-Activated Nanoparticles	NIH	$132,011.47
Hong Zhao	PI	Miniaturized High-Energy-Resolution Relativistic Electron Telescope	NASA	$286,345.60
Hong Zhao	PI	Roles Of Inward Radial Diffusion &Local Acceleration On The Energy-Dependent Energization Of Ultra Relativistic Electrons	NASA	$249,008
Hong Zhao	PI	Investigating The Role Of Subauroral Polarization Stream On The Energetic Particle Deep Penetration	NASA	$295,983.00.00
John Schmitt	PI	Optimized Stellarator Pilot Plant Design	Princeton Plasma Physics Lab (fed flow)	$24,950.35
Joseph Perez	PI	Storm Time O+ Ring Current Imaging Evolution	NASA	$82,254.23
Luca Guazzotto	PI	Two Fluid Equilibrium &Stability Analysis In Axisymmetric Plasmas	Department of Energy	$126,388.16
Marcelo Kuroda	PI	Modulation Of The Interlayer Coupling In Heterostructures Based On Two-Dimensional Materials	NSF	$106,154*
Mark Adrian	PI	Development Of Low-Energy Electron Plasma Instrument	NASA	$29,999.99

Physics
Extramural Research Grants with New Dollars Received in FY2022

PI NAME	PI/COPI	PROJECT TITLE	SPONSOR	AMOUNT
Michael Fogle	PI	Small Satellite Based Secure Communication Thru Entangled Quant Key Distribution-Option 1	Missile Defense Agency- Dept of Defense	$76, 772.31
Michael Fogle/ Stuart Loch	PI COPI	A Joint Theoretical & Experimental Approach To Dielectronic Recombination Data Needs	NASA	$190,544.01
Michael Fogle	PI	Trusted-Node Quantum Key Distribution From A Cube Sat	Space Dynamics Lab (fed flow)	$214,327.04
Nicholas Giordano	PI	Physics Of Wind Musical Instruments	NSF	$113,370.00
Rafael Bernardi	PI	Career: In Silico Single-Molecule Force Spectroscopy	NSF	$484,008.00*
Ryan Comes	PI	Metastable Oxides For High-Mobility & Spin-Orbit 2D Electronics	Air Force Research Lab- Dept of Defense	$149,800.00
Saikat Chakraborty Thakur	PI	Z13.03-2204xemu Lunar Dust Mitigation Devices	Innovative Aerospace (Corp Nasa fed flow)	$142,309.59
Saikat Chakraborty Thakur	PI	Direct Nanomechanical Measurement Of Laser-Generated Plasma Shocks & Their Interaction With 2D Materials	Innovative Aerospace	$13,965.00
Sarit Dhar	PI	Army Research Lab Accelerator Services	Army Research Lab- Dept of Defense	$4,800.00
Sarit Dhar	PI	Fe Ion Implantation Into Ga2o3	UES (Corp fed flow)	$979.14
Sarit Dhar	PI	Proton Irradiations	Blue Wave Semiconductors (Corp fed flow)	$4,500.00
Sarit Dhar	PI	Proton Irradiations Using Various Energies & Fluences	PSU-Abington (nonfed flow)	$999.44
Sarit Dhar	PI	Improving Sic Wafers & Processing For Lower Costs & Higher Reliability	National Renewable Energy Lab (fed flow)	$37,500.00
Sarit Dhar	PI	Thin Film Diamond-Lift Off By Ion Implantation & Annealing	JESCO (non fed)	$20,066.83
Uwe Konopka/ Edward Thomas	PI COPI	Complex Plasma Under Microgravity: Utilizing The International Space Station Experiment Pk-4 & Beyond	California Institute of Technology Jet Propulsion Lab (fed flow)	$155,000.00
Wencan Jin	PI	Probing Novel Phases Of Matter In Van Der Waals Magnet	NSF	$240, 706.42

Physics
Extramural Research Grants with New Dollars Received in FY2022

PI NAME	PI/COPI	PROJECT TITLE	SPONSOR	AMOUNT
Xueyi Wang/ Yu Lin	PI COPI	Gem-Impact Of Solar Wind Dynamic Pressure Enhancement On The Cusp & Polar Cap Ion Source	National Science Foundation	$396,722.00
Xueyi Wang	PI	Investigation Of Whistler-Mode Chorus Wave Generation &Associated Electron Scattering In The Earth's Inner Magnetosphere	NASA	$379,467.00
Xueyi Wang	PI	Investigating Quasi-Periodic Modulation Of The Fast Magnetosonic Waves In the Earths Inner Magnetosphere	University of Maryland Baltimore County (NASA fed flow)	$87,892.00
Xueyi Wang	PI	Impact Of Foreshock Transients On The Earth's Nightside Magnetosphere	UCLA (fed flow)	$102,389.00
Yu Lin	PI	Tracers Phase A	University of Iowa (fed flow)	$41,952.27
Yu Lin	PI	Investigating Magnetosphere-Ionosphere Coupling Associated With Flow Induced Alfven Wave Energy In The Magnetotail	University of Alaska Fairbanks (fed flow)	$41,516.00
		Physics Total:		**$7,209,799.19**
*Patricipant Support Costs included				

Physics Active Awards FY22

PI	SPONSOR	TITLE	START DATE	END DATE
Adrian, Mark	NASA	NASA-80NSSC22K1280	07/01/22	06/30/25
Bernardi, Rafael	National Science Foundation	NSF-MCB-2143787*	03/01/22	02/28/27
Bernardi, Rafael	University of Illinois	UN IL-110955-19424	09/28/22	07/31/23
Bodewits, Dennis	Space Telescope Science Institute	STSI-HST-GO-16040.003-A	04/01/20	03/31/23
Bodewits, Dennis	Space Telescope Science Institute	STSI-HST-GO-16049.001-A	03/01/20	02/28/24
Bodewits, Dennis	Space Telescope Science Institute	STSI-HST-GO-16652.005-A	11/01/21	10/31/24
Bodewits, Dennis	Smithsonian Astrophysical Observatory	SAO-DD0-21117A	04/28/20	04/27/22
Bodewits, Dennis	NASA	NASA-80NSSC20K0839	04/01/20	03/31/23
Bodewits, Dennis	Space Telescope Science Institute	STSI-HST-GO-16077.003-A	08/01/20	07/31/23
Bodewits, Dennis	Space Telescope Science Institute	STSI-HST-GO-15965.001-A	12/01/19	11/30/22
Bodewits, Dennis	NASA	NASA-80NSSC21K1910	08/20/21	08/18/23
Bodewits, Dennis	Space Telescope Science Institute	STSI-HST-GO-16770.001-A	11/01/21	10/31/24
Bodewits, Dennis	Space Telescope Science Institute	STSI-JWST-AR-02037.003-A	07/01/22	06/30/25
Bodewits, Dennis	Space Telescope Science Institute	STSI-HST-GO-15625.001-A	03/01/19	02/28/23
Bodewits, Dennis	Space Telescope Science Institute	STSI-HST-GO-16878.005-A	04/01/22	03/31/25
Bodewits, Dennis	Space Telescope Science Institute	STSI-HST-GO-16852.001-A	03/01/22	02/28/25
Bodewits, Dennis	Space Telescope Science Institute	STSI-HST-GO-15372.011-A	12/01/18	11/30/22
Bodewits, Dennis	Planetary Science Instiutute	PSI-SUBAWARD 1528 AUBURN	08/01/18	05/15/23
Bodewits, Dennis	NASA	NASA-80NSSC19K0245	03/14/19	03/13/23

Physics Active Awards FY22

PI	SPONSOR	TITLE	START DATE	END DATE
Bodewits, Dennis	NASA	NASA-80NSSC19K1304	09/01/19	08/31/23
Bodewits, Dennis	Smithsonian Astrophysical Observatory	SAO-GO8-19001A	12/07/18	12/06/21
Bodewits, Dennis/Bodewits, De	NASA	NASA-80NSSC21K0703	04/01/21	03/31/22
Bodewits, Dennis	NASA	NASA-80NSSC22K0540	07/01/22	08/31/23
Bonamente, Emanuele/Bodewits, Dennis	NASA	NASA-80NSSC21K0127	11/01/20	10/31/22
Chakraborty Thakur, Saikat	Innovative Aerospace	INNOVATIVE AEROSPACE-THAKUR	09/01/22	06/15/24
Comes, Ryan	Air Force Research Lab	AF-FA9550-20-1-0034	01/01/20	01/26/24
Comes, Ryan	National Science Foundation	NSF-DMR-2045993*	05/01/21	04/30/26
Comes, Ryan/Farnum, Byron	National Science Foundation	NSF-DMR-2018794	08/01/20	07/31/23
Comes, Ryan/Farnum, Byron	National Science Foundation	NSF-DMR-1809847*	07/01/18	06/30/22
Dhar, Sarit	Martin Materials Solutions	MMS-PO-S15-2021-01	01/01/21	12/31/21
Dhar, Sarit	UES-Po	UES-PO 162-13-WL017	08/01/21	08/01/22
Dhar, Sarit	Spectrolab	SPECTROLAB-PO 111971	06/01/21	06/01/22
Dhar, Sarit	UES-Po	UES-PO 162-13-WL016	08/01/21	08/01/22
Dhar, Sarit	Penn State University -Abington	PSU ABINGTON-DHAR	03/25/22	03/25/23
Dhar, Sarit	US Army	ARMY-ACCELERATOR SERV-23	06/30/22	06/30/23
Dhar, Sarit	Blue Wave Semiconductors	BLUE WAVE SEMICONDUCTORS	02/15/22	02/15/23
Dhar, Sarit	Jesco	JESCO-DHAR	04/01/22	04/01/23
Dhar, Sarit	Solaero	SOLAERO-PO S000010374	09/21/22	09/30/23
Dhar, Sarit	National Renewable Energy Lab	NREL-AHL-9-92362-01	09/10/19	09/30/22
Dhar, Sarit	The Aerospace Corporation	TAC-PO 4600006756	08/08/19	09/30/23

Physics Active Awards FY22

PI	SPONSOR	TITLE	START DATE	END DATE
Dhar, Sarit	Spectrolab	SPECTROLAB-PO 103647	06/01/18	06/01/19
Dhar, Sarit	Solaero	SOLAERO-PO S000009094	01/15/18	01/15/19
Dhar, Sarit	Reghar Solar	REGHER SOLAR	01/10/20	06/30/23
Dhar, Sarit/Dhar, Sa	Solaero	SOLAERO-PO S000009857	08/01/20	09/30/23
Dhar, Sarit/Dhar, Sa	Solaero	SOLAERO-PO S000009854	08/01/20	09/30/23
Dhar, Sarit/Kuroda, Marcelo	US Army	ARMY-W911NF-18-2-0160	06/21/18	06/20/21
Ennis, Stuart	Dept of Energy	DE-SC0015877-B	07/01/22	06/30/23
Ewald, Mary/Wang, Xueyi/Maurer, David/Perez, Joseph /Kostadinova, Evdokiya / Thomas, Ed/Konopka, Uwe	University of Alabama-Huntsville	UAH-2022-1537*	06/01/22	04/30/27
Fogle, Michael	Missile Defense Agency	MDA-HQ0860-21-C-6000-PHY	04/02/21	04/01/22
Fogle, Michael	Missile Defense Agency	MDA-HQ0860-21-C-6000-O1-PHY	04/02/22	04/01/23
Fogle, Michael	Space Dynamics Lab	SDL-CP0072009-PHY	01/01/22	01/31/24
Fogle, Michael	Clemson University	CU-2125-204-2013329	02/01/19	03/11/23
Fogle, Michael/Adams, Mark	Space Dynamics Lab	SDL-CP0053703	01/01/19	11/30/21
Fogle, Michael/Loch, Stuart	National Science Foundation	NSF-AST-2108647	09/01/21	08/31/24
Fogle, Michael/Wersinger, Jean Marie	National Science Foundation	NSF-AGS-1445465-PHY	08/15/15	07/31/23
Jin, Wencan	National Science Foundation	NSF-DMR-2129879-PHY	08/15/21	07/31/24
King, David/ Thomas, Ed/Konopka, Uwe/Bodewits, Dennis	University of Alabama-Huntsville	UAH-2019-215-PY	07/01/19	05/31/22
Konopka, Uwe	University of Alabama-Huntsville	UAH-2020-1255	09/01/20	07/31/23
Konopka, Uwe	National Science Foundation	NSF-PHY-1740784	06/01/17	05/31/22
Konopka, Uwe	Jet Propulision Lab-Cal Tech	JPL-1655063	10/01/20	09/30/23

Physics Active Awards FY22

PI	SPONSOR	TITLE	START DATE	END DATE
Konopka, Uwe/Thomas, Ed	Jet Propulsion Lab-Cal Tech	JPL-RSA 1667433	08/16/21	09/30/22
Konopka, Uwe/Thomas, Ed	Jet Propulsion Lab-Cal Tech	JPL-RSA 1571699	04/15/07	
Konopka, Uwe/Thomas, Ed	Jet Propulsion Lab-Cal Tech	JPL-1679198	06/15/22	06/15/24
Kostadinova, Evdokiya	Dept of Energy	DE-SC0023061	09/01/21	08/31/23
Kostadinova, Evdokiya	Dept of Energy	DE-SC0022554	05/01/22	04/30/23
Kostadinova, Evdokiya	Dept of Energy	DE-SC0023476	09/01/22	08/31/23
Kostadinova, Evdokiya	Baylor University	BAYLOR-1000274-01	08/26/21	07/31/23
Kuroda, Marcelo	National Science Foundation	NSF-DMR-1848344	07/01/19	06/30/24
Kuroda, Marcelo	National Science Foundation	NSF-DMR-1848344-PSC	07/01/19	06/30/24
Landers, Allen	Times Microwave Systems	TMS-PO 40837	12/03/21	12/02/22
Landers, Allen	Times Microwave Systems	TMS-PO41364	06/10/22	09/30/22
Landers, Allen/Cichon, Max	Carlisle Interconnect Technologies	CIT-PO 4500668201	07/29/21	03/31/22
Landers, Allen/Cichon, Max	Carlisle Interconnect Technologies	CIT-PO 4500691610	02/08/22	09/30/23
Laurent, Guillaume	National Institute of Health	NIH-1R15GM144897-01-PHY	09/20/21	08/31/24
Laurent, Guillaume	Air Force	AF-FA9550-18-1-0333	06/15/18	06/14/23
Lin, Yu	University of California-Los Angeles	UCLA-2090 G XA735	03/04/20	05/15/23
Lin, Yu	American Physical Society	APS-CONTR CWC-066	09/01/22	07/30/23
Lin, Yu	University of Alaska-Fairbanks	UA FAIRBANKS-UA 22-0077	10/01/21	09/30/22
Lin, Yu	NASA	NASA-80NSSC20K1322	07/14/20	07/13/23
Lin, Yu	University of Iowa	UN IA-PO 1002078137	03/05/18	08/31/24

Physics Active Awards FY22

PI	SPONSOR	TITLE	START DATE	END DATE
Loch, Stuart/Fogle, Michael	NASA	NASA-80NSSC21K1465	07/08/21	07/07/24
Loch, Stuart/Fogle, Michael	Dept of Energy	DE-SC0015877	06/01/16	06/30/22
Loch, Stuart/Fogle, Michael	National Science Foundation	NSF-AST-1816984	09/01/18	08/31/22
Loch, Stuart/Werner Van Wyk, Hans	Smithsonian Astrophysical Observatory	SAO-SV8-88019	06/01/18	12/31/21
Maurer, David/Schmitt, John/Ennis, David	Dept of Energy	DE-SC0014529	08/15/15	08/14/23
Maurer, David/Schmitt, John/Fogle, Michael	Princeton Plasma Physics Lab	PPPL-S210158	02/01/21	09/30/22
Maurer, David/Knowlton, Steven/Harwell, Greg/Ennis, David	Dept of Energy	DE-FG02-00ER54610	09/01/00	05/15/23
Mehta, Christopher/Kostadinova, Evdokiya	Dept of Energy	DE-SC0023375	09/01/22	08/31/23
Perez, Joseph	NASA	NASA-80NSSC22K1029	05/09/22	05/08/26
Perez, Joseph	University of Alabama-Huntsville	UAH-2018-251	06/26/18	05/25/22
Schmitt, John	Princeton Plasma Physics Lab	PPPL-S018052	04/29/20	09/30/22
Schmitt,John/Maurer, David	University of Montana	UN MT-PG23-25236-01	08/01/22	07/31/23
Thomas, Edward	Jet Propulision Lab-Cal Tech	JPL-1646773-PHY	02/06/20	02/05/23
Thomas, Edward	University of Alabama-Huntsville	UAH-2017-096-A13-ET	10/01/20	07/31/23
Thomas, Edward	Program Income For Eclipse Conf-Additive	PROG INCOME-200868	02/15/22	01/31/23
Thomas, Edward	National Science Foundation	NSF-PHY-2213431	02/15/22	01/31/23
Thomas, Edward	National Science Foundation	NSF-PHY-2213431-PSC	02/15/22	01/31/23
Thomas, Edward	University of Alabama-Huntsville	UAH-2017-096	08/01/17	07/31/23
Thomas, Edward	University of Alabama-Huntsville	UAH-2017-096-PSC	08/01/17	07/31/23
Thomas, Edward	University of Alabama-Huntsville	UAH-2017-096-GRA	09/01/17	07/31/23
Thomas, Edward	University of Alabama-Huntsville	UAH-2017-096-A10-FS	09/01/17	07/31/23
Thomas, Edward	University of Alabama-Huntsville	UAH-2017-096-A10-SJ	09/01/17	07/31/23

Physics Active Awards FY22

PI	SPONSOR	TITLE	START DATE	END DATE
Thomas, Edward/Konopka, Uwe	Dept of Energy	DE-SC0019176	09/01/18	08/31/23
Thomas, Edward/Thomas, Ed	L3Harris	L3HARRIS-PO A000529678	02/27/20	12/31/23
Thomas,Ed/Chakraborty Thakur, Saikat	University of Alabama-Huntsville	UAH-2017-096-A17-THAKUR	08/01/21	07/31/23
Wang, Xueyi	University of California-Los Angeles	UCLA-0965 G XA019	04/16/19	04/15/23
Wang, Xueyi	University of Madison-Baltimore County	UMBC-NASA0065-02	08/05/21	08/04/23
Wang, Xueyi/Lin, Yu	University of California- Los Angeles	UCLA-0965 G ZA769	06/01/22	05/31/23
Wang, Xueyi/Wang, Xu	NASA	NASA-80NSSC21K1688	09/01/21	08/31/24
Wang,Xueyi/Zhao, Hong/Lin, Yu	National Science Foundation	NSF-AGS-2131012	08/01/21	07/31/25
Zhao, Hong	National Science Foundation	NSF-AGS-2140933	01/01/21	02/29/24
Zhao, Hong	NASA	NASA-80NSSC21K1041	09/01/21	08/31/24
Zhao, Hong	NASA	NASA-80NSSC22K0473	04/01/22	03/31/25
Zhao, Hong	NASA	NASA-80NSSC22K0356	05/11/22	05/10/25
Zhao, Hong	National Science Foundation	NSF-AGS-2140934	01/01/21	05/31/24
*Includes Participant Support Cost		**TOTAL ACTIVE AWARDS: 115**		

Physics Submitted Proposals FY22

Proposal ID	PI/COPI	Title	Sponsor	Amount Requested
957-22P	Adrian, Mark	Development of Low-energy Electron Plasma Instrumentation	NASA GSFC	$29,999.93
0464-22P	Ahyi, Ayayi	SiC Punch-through diodes for integrated voltage control and over-voltage suppression at 500°C	UAH	$79,992.25
0073-22P	Bernardi, Rafael	AI-driven optimization of protein interfaces for antibody design	NIH	$415,250.00
0074-22P	Bernardi, Rafael	Designing pathogen adhesin blockers with Deep Learning	NIH	$316,525.00
	Bernardi, Rafael	Modeling the evolution of protein mechanostability with AI-driven single-molecule approaches	Simons Foundation	
0173-22P	Bernardi, Rafael	Optimizing Affibody design with AI-driven single-molecule approaches	NIH	$1,829,922.14
1082-22P	Bernardi, Rafael	Mechanisms of protein mechanostability by in silico single-molecule force spectroscopy	NIH	$453,000.00
1142-22P	Bernardi, Rafael	Designing pathogen adhesin blockers with Deep Learning	NIH	$406,989.00
0071-22P	Bernardi, Rafael	A machine learning method for describing the atomic principles of viral protein mechanostability	NIH - R03	$141,880.37
0208-22P	Bodewits, Dennis	HST Cycle 29 Program GO-16852 Observations of 29P	NASA/STSCI	$110,901.89
0288-22P	Bodewits, Dennis	HST Cycle 29 Program GO-16878	STScI	$11,568.11
0686-22P	Bodewits, Dennis	WHY WAS COMET C/2017 K2 ACTIVE AT RECORD-SETTING DISTANCES AND WHAT HAPPENS WHEN IT REACHES THE INNER SOLAR SYSTEM?	NASA	$39,459.28
0835-22P	Bodewits, Dennis	NICER Cycle 4 Using NICER to Study the Solar-Wind Interaction with the Rare, CO-Rich Comet C/2017 K2	NASA/NICER	$44,000.00
	Bodewits, Dennis	Spectroscopic models of small, oxygen-bearing molecular ions	NASA	
0904-22P	Bodewits, Dennis	Spectral models for Cations in Cometary Comae	NASA	$520,813.61

Physics Submitted Proposals FY22

Proposal ID	PI/COPI	Title	Sponsor	Amount Requested
	Bodewits, Dennis	Xrism guest scientist program Cometary X-rays	NASA	
1210-22P	Bodewits, Dennis	Investigating Sulfur Abundances and Distributions in UV Comet Observations	Space Telescope Science Institute	$319,387.06
400-22P	Burkholder, Eric	Assessing and teaching real-world problem solving skills in engineering science courses	NSF	$299,985.69
0644-22P	Burkholder, Eric	Assessing and improving real-world problem-solving skills in graduate coursework	NSF	$499,857.50
0645-22P	Burkholder, Eric	Investigating the role of background preparation in cooperative grouping in STEM classrooms	NSF	$349,797,.04
0822-22P	Burkholder, Eric	Student self- and group-assessment and implications for equitable classroom instruction	Spencer Foundation	$246,708.72
1128-22P	Burkholder, Eric	Development and validation of a mathematical sensemaking inventory in physics	NSF	$733,138.29
1163-22P	Burkholder, Eric	Equitable group structure: barriers, moderating factors, and solutions	NSF	$1,024,913.00
1108-22P	Burkholder, Eric	NSF IUSE/PFE: RED Innovation: Improving problem-solving and representation in engineering through reform of assessment practices	NSF	$1,985,230.00
1526-22P	Burkholder, Eric	Facilitating equitable group work: Investigating challenges and tools for equal learning opportunities in active learning	NSF	$1,030,907.19
0211-22P	Chakraborty Thakur, Saikat	The Lunar Dust Mitigation Devices (LDMD) Testing (SBIR Phase II)	Innovative Aerospace LLC (NASA flow)	$142,273.15
0171-22P	Chakraborty-Thakur, Saikat	ECLIPSE: Collaborative Research: Physical and chemical insights into particle formation and dynamics in dusty plasma via multi-fold laser diagnostics	NSF	$368,414.94
0423-22P	Comes, Ryan	The SECURE Collaboration: Scholarly Excellence in Critical Element Utilization, REcapture, and Education	NSF	$1,434,000.21
0727-22P	Comes, Ryan	In Situ Studies of Charge Transfer Phenomena in Complex Oxide Heterostructures	DOE BES	$749,728.20
0550-22P	Dhar, Sarit	Accelerator	Blue Wave Semiconductors	$4,500.07

Physics Submitted Proposals FY22

Proposal ID	PI/COPI	Title	Sponsor	Amount Requested
1512-22P	Dhar, Sarit	Accelerator Services-Solaero various ions and fluence combinations	Solaero	$8,345.32
	Dhar, Sarit	Engineering interfaces for high performance SiC power electronic systems (tentative)	NSF	$1,377,635.69
0869-22P	Dhar, Sarit	Thin film diamond-lift off by ion implantation and annealing	JESCO	$64,541.85
0679-22P	Dhar, Sarit	Accelerator - Pennsylvania State Abington	Penn State	$999.44
0730-22P	Dhar, Sarit	Thin film diamond-lift off by ion implantation and annealing	JESCO Projects LLC	$20,066.82
1074-22P	Dhar, Sarit	Accelerator	Army Research Lab	$4,800.00
0445-22P	Ennis, David	Erosion and Re-Deposition Spectroscopic Diagnostic Developments for High-Z PFCs in DIII-D	Dept. of Energy (DOE)	$920,569.56
1586-21P	Gramlich, Michael	Inter-Synaptic Vesicle Exchange Mediation of Frequency-dependent Presynaptic Transmission	NSF	$736,087.59
	Gramlich, Michael	Presynaptic Recycling Vesicle Pathway to hyperexcitable states in P301L tau model	NIH	
1060-22P	Gramlich, Michael	Regulating glutamate and tau release in rTg(4510)P301L mice	NIH	$431,126.10
1251-22P	Gramlich, Michael	Dynamically Changing Presynaptic Vesicle Pool Size Mediates Long Term Potentiation Via Inter-Synaptic Vesicle Exchange	NSF	$809,134.45
1452-22P	Gramlich, Michael	Bootstrapping Approach to Understanding Presynaptic Vesicle Pool Size on Synaptic Transmission	NSF/NIH	$596,827.52
0950-22P	Jin, Wencan	Characterization, modeling, and test generation for defects in skyrmion logic gates and circuits	NSF-EPMD	$524,983.33
1191-22P	Jin, Wencan	Nonlinear optics studies of ferroic orders in complex oxides	NSF	$673,374.64
0821-22P	Konopka, Uwe	JPL PK-4	JPL - NASA	$309,587.11

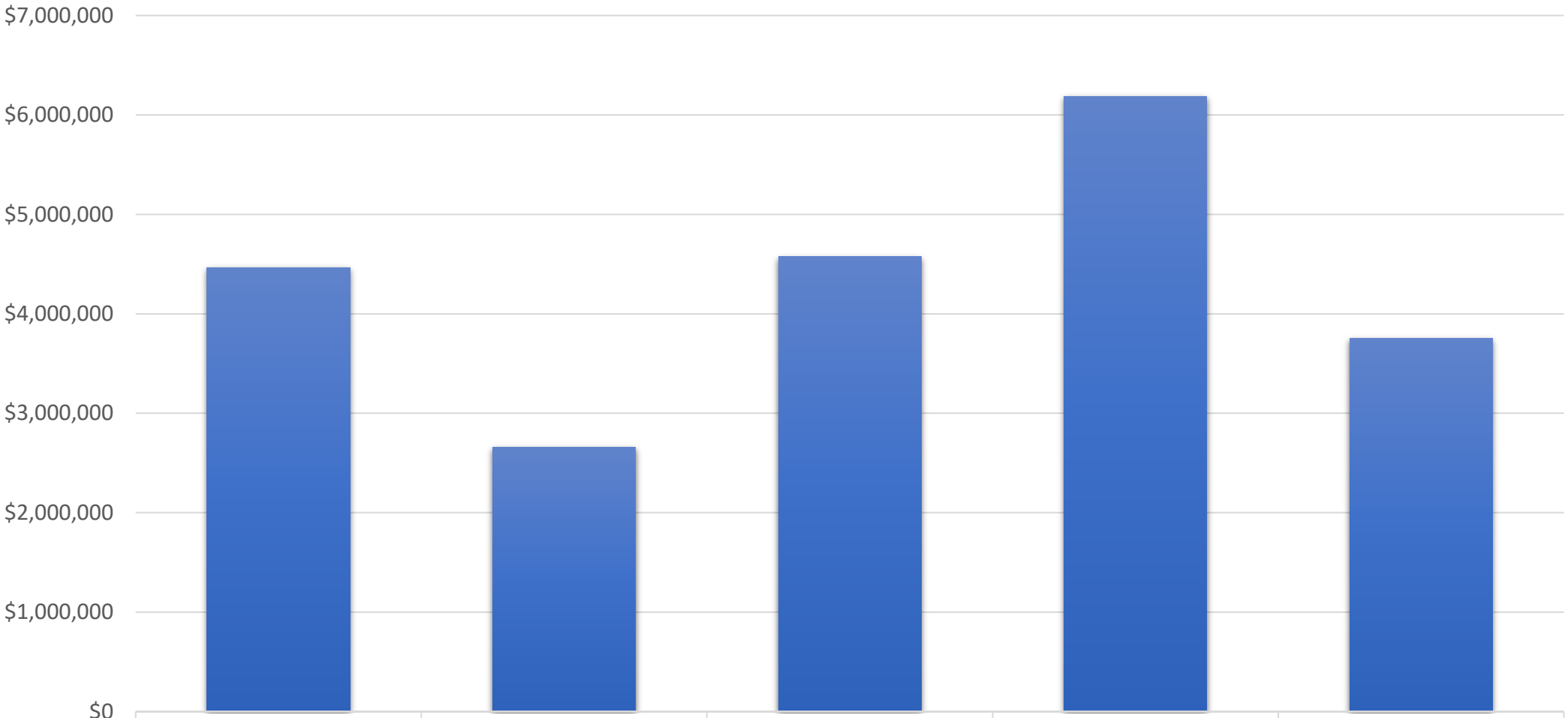
Physics Submitted Proposals FY22

Proposal ID	PI/COPI	Title	Sponsor	Amount Requested
0776-22P	Konopka, Uwe	Understanding the melting dynamics of the plasma crystal under the influence of varying magnetic field	East Michigan University (DOE Flow)	$20,069.82
0163-22P	Kostadinova, Evdokiya	Using dusty plasma to study universality of liquid crystal phase transitions and origins of pattern formation	NSF-DMR	$731,126.02
0178-22P	Kostadinova, Evdokiya	Hypervelocity Impact in Stellar Media: Heat Sheilding, Shock Fronts and Ablation Clouds	DOE	$67,885.33
ANP	Kostadinova, Evdokiya	Energetic Electron Transport in Magnetized Plasma with Magnetic Islands	DOE	$136,118.77
0454-22P	Kuroda, Marcelo	NSF EPSCoR - TBD	NSF EPSCoR (Kansas Lead)	$1,998,433.41
0803-22P	Kuroda, Marcelo	SemiSynBio-III: 2D Material Nanochannels as Biomolecule-based High-Density Storage	NSF	$1,500,000
1015-22P	Landers, Allen	Cobalt Services	Times Microwave Systems	$2,567.00
0272-22P	Landers, Allen	Cobalt 60	Times Microwave Systems	$1,585.50
0081-22P	Landers, Allen	Cobalt 60 - Carlisle IT	Carlisle Interconnect Technologies	$7,927.50
1498-21P	Lin, Yu	A magnetosphere model based on combined global hybrid and inner magnetosphere codes	NASA	$2,211,278.36
0048-22P	Lin, Yu	HERMES: HEliospheRic Magnetic Energy Storage and conversion	NASA DRIVE Center Program	$1,051,002.56
0366-22P	Lin, Yu	Global and Kinetic Aspects of Mass, Momentum, and Energy Transport across the Magnetopause	Andrews Univ.	$189,175.00
0452-22P	Maurer, David	MHD stability and equilibrium in a current-driven stellarator-tokamak hybrid	DOE Office of Science, Fusion Energy Science	$202,095,255.00
1479-22P	Maurer, David	Three-dimensional equilibrium stability and its impact on edge transport and divertor performance in Wendelstein 7-X (Supplemental Funding)	DOE	$75,642.74
	Mehta, Christopher	Formation of Organic Compounds through Meteoritic Atmospheric Shock	DOE	$154,477.98

Physics Submitted Proposals FY22

Proposal ID	PI/COPI	Title	Sponsor	Amount Requested
0603-22P	Perez Joseph	Storm Time O+ Ring Current Imaging Evolution (STORIE)	Goddard NASA	$254,605.03
0724-22P	Schmitt, John	Magnetohydrodynamic Optimization of Stellarator Fusion Energy Systems	DOE EPSCoR	$169,797.81
0740-22P	Thomas, Ed	Experiments to validate thermodynamic and transport models of strongly coupled dusty plasma matter	University of Memphis	$33,339.29
0154-22P	Thomas, Ed	ECLIPSE-Plasma Physics Workshop	NSF	$99,766.00
0265-22P	Thomas, Ed	IGSA	Fort Benning	$18,461,797.00
0083-22P	Wang, Xueyi	Understanding warm plasma cloak in the magnetosphere	UCLA (NASA flow through)	$403,607.44
0308-22P	Wang, Xueyi	Impact of solar wind dynamic pressure enhancement on the cusp particle source for the Earth's magnetosphere	UCLA	$300,228.00
0310-22P	Wang, Xueyi	Predictive Model of Hot Flow Anomalies and Foreshock Bubbles	UCLA	$62,706.00
0311-21P	Wang, Xueyi	How upstream solar wind conditions determine the properties of the foreshock backstreaming ions	UCLA (NASA PRIME)	$109,937.81
0628-22P	Wang, Xueyi/ Lin, Yu	Collaborative Research: Impact of Solar Wind Dynamic Pressure Enhancement on the Cusp and Polar Ion Source”	UCLA (NSF PRIME)	$396,719.82
1503-22P	Wang, Xueyi	How upstream solar wind conditions determine the properties of the foreshock backstreaming ions	NSF	$82,799.86
1501-22P	Zhao, Hong	Collab.Res: Quantifying the contribution of off-equatorial ULF waves on radial diffusion in the radiation belts	NSF	$89,978.46
TOTAL PROPOSALS: 72			**TOTAL AMOUNT REQUESTED:**	**$250,775,049.57**

Outreach and Admin
FY 22



	2018	2019	2020	2021	2022
Outreach and Admin	$4,465,250	$2,658,317	$4,576,477	$6,188,454	$3,753,873

Outreach and Admin
Extramural Research Grants with New Dollars Received in FY2022

PI NAME	PI/COPI	PROJECT TITLE	SPONSOR	AMOUNT
Mary Ewald	PI	Teacher in Residence	US Department of Education	$356,400.00
Mary Ewald	PI	Alabama Science in Motion Program	Alabama Department of Education (non fed)	$466,814.00
Mary Ewald	PI	Al Math, Science & Technology Initiative Site (Amsti)	Alabama Department of Education (non fed)	$2,398,821.00
Mary Ewald	PI	Stem Teaching At Capital Heights Middle School	Montgomery Public Schools (non fed)	$11,250.00
Mary Ewald	PI	Alabama Space Grant Consortium-2022 Greater East Alabama Regional Science & Engineering Fair	UAH (Nasa fed flow)	$5,000.00
Mary Ewald	PI	Alabama Space Grant Consortium-2022 Alabama Science & Engineering Fair	UAH (NASA fed flow)	$5,000.00
Overtoun Jenda/ Ash Abebe	PI COPI	Making To Advance Knowledge, Excellence & Recognition In Stem	NSF	$57,436.00
Overtoun Jenda	PI	Greater Ala Black Belt Region Stem Initiative Summer Academy	Alabama Department of Education (non fed)	$40,000.00
Overtoun Jenda	PI	College Quest Summer Academy For Blind & Low Vision High School Students	Alabama Department of Rehabilitation Services	$74,985.00
Overtoun Jenda	PI	Act Summer Academy For Deaf & Hard Of Hearing High School Students	Alabama Department of Rehabilitation Services	$40,000.00
Overtoun Jenda	PI	Alabama State University Gear Up	US Department of Education	$69,011.58
Overtoun Jenda	PI	Support Panopto Teaching & Learning System	Maren-Panopto System Malawi Research and Education Network	$85,000.00
Robert Boyd	PI	Alabama Department of Public Health Rural Medicine Program	Alabama Department of Public Health (non fed)	$144,155.00
		Outreach and Admin Total:		**$3,753,872.58**

COSAM Outreach/Admin Active Awards FY22

PI	SPONSOR	TITLE	START DATE	END DATE
Robert Boyd	Alabama Dept of Public Health	ADPH Rural Health Program	1-Jul-10	30-Sep-23
Overtoun Jenda	National Science Foundation	NSF-HRD-1712692*	1-Sep-17	31-Aug-24
Overtoun Jenda/Abebe/Wilson	National Science Foundation	NSF-DUE-1644007*	1-Oct-16	31-Mar-24
Overtoun Jenda		NAU-1004670-01	1-Dec-20	30-Jun-23
Overtoun Jenda/Abebe/Johnson	National Science Foundation	NSF-DMS-2015425*	15-Jul-20	30-Jun-23
Overtoun Jenda/Peter Johnson	National Science Foundation	NSF-DMS-1950563*	1-Apr-20	31-Mar-24
Overtoun Jenda/McCulluogh	National Science Foundation	NSF-EES-2119902*	1-Aug-21	31-Jul-27
Overtoun Jenda	Alabama Dept of Rehabilitation Services	AL DRS-AE2087MS05	1-Apr-22	
Overtoun Jenda	Alabama Dept of Rehabilitation Services	AL DRS-AE2087MS58	1-Feb-22	
Overtoun Jenda	Alabama State Dept of Education	AL DOE-X230102	1-Oct-22	30-Sep-23
Overtoun Jenda		MAREN-PANOPTO SYSTEM	1-Aug-22	1-Aug-23
Overtoun Jenda	Alabama Dept of Rehabilitation Services	AL DRS-AE1087MS05	1-Apr-21	
Overtoun Jenda	Alabama Dept of Rehabilitation Services	AL DRS-AE9087MS58	1-May-19	
Overtoun Jenda/Asheber Abebe	National Science Foundation	NSF-HRD-1649344*	10/01/16	06/30/22
Kimberly Mulligan-Guy/Karen McNeal	National Science Foundation	NSF-EEC-1950304*	04/15/20	03/31/23
Overtoun Jenda	AL Dept of Education	AL DOE-X220473	10/01/21	09/30/22
Overtoun Jenda	Alabama State University	AL ST UN-ASU GEAR UP	04/01/22	09/01/22
Overtoun Jenda	Alabama Dept of Rehabilitation Services	AL DRS-AE8087MS58	1-May-18	
		Total Admin: 18		
Mary Ewald	University of Alabama at Huntsville	UAH-2020-1261-ASEF-22	09/30/21	06/01/22
Mary Ewald	University of Alabama at Huntsville	UAH-2020-1261-GEARSEF-22	09/30/21	06/01/22
Mary Ewald	AL Dept of Education	AL DOE-U220114	10/01/20	09/30/22
Mary Ewald	AL Dept of Education	AL DOE-U210038	10/01/21	09/30/22
		Total Outreach: 4		

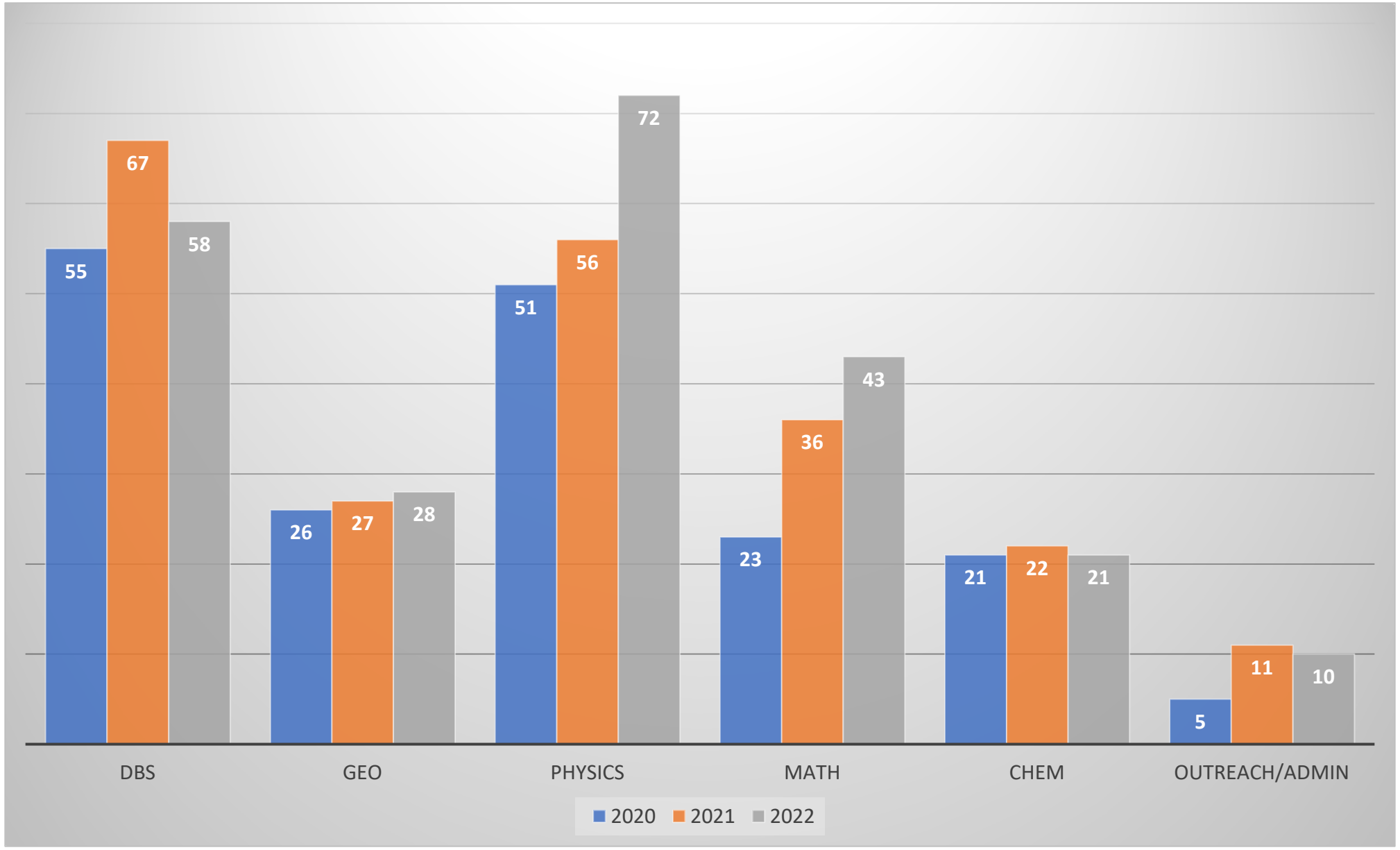
COSAM Outreach/Admin Active Awards FY22

PI	SPONSOR	TITLE	START DATE	END DATE
Mary Ewald	AL Dept of Education	AL DOE-U210027*	10/01/20	09/30/22
Mary Ewald	AL Dept of Education	AL DOE U220134	10/01/21	12/31/22
Mary Ewald	AL Dept of Education	AL DOE-U220161	1-Oct-21	30-Sep-23
		Total AMSTI: 3		
*Denotes Participant Support Costs included				
		TOTAL ACTIVE AWARDS: 25		

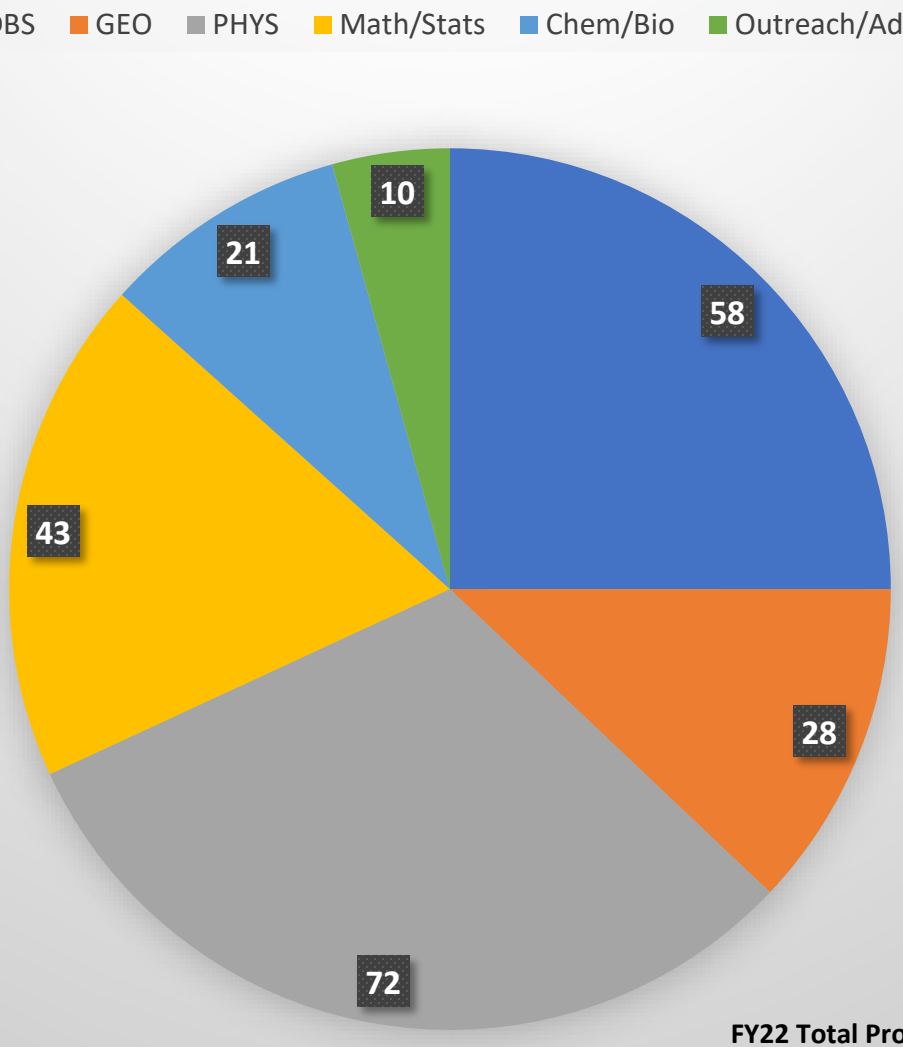
Outreach and Admin Submitted Proposals FY22

Proposal ID	PI/COPI	Title	Sponsor	Amount Requested
ANP	Boyd, Robert	Auburn Rural Scholars Program	AL Dept Health	$144,155.00
ANP	Ewald, Mary	Alabama Science in Motion FY23	ALSDE	$466,814.00
ANP	Ewald, Mary	AMSTI	ALSDE	$2,398,821
1841-22P	Ewald, Mary	AMSTI TIR	ALSDE	$183,600.50
0162-22P	Jenda, Overtoun	LSAMP BD: Auburn University GABBR Alliance	NSF	$1,074,992
0572-22P	Jenda, Overtoun	Collaborative Research: MAKERS through Data Science (MAKERS-DS): A Mentoring Community Approach in Areas of Critical National Need	NSF	$1,598,048.00
1395-22P	Jenda, Overtoun	REU Site: Research Experience for Undergraduates in Algebra & Discrete Mathematics at Auburn University	NSF	$259,200.00
0415-22P	Mulligan, Kimberly	RaMP: Enhancing Scientific Preparation through Mentorship (ESP-M) Program	NSF	$2,954,761.66
1357-22P	Mulligan, Kimberly	Collaborative Research: AGEP FC-PAM	NSF	$1,577,193.00
0726-22P	Mulligan, Kimberly	EPSCOR-DE-STRESS Postbac program	NSF	$999,997.40
TOTAL PROPOSALS: 10			**TOTAL AMOUNT REQUESTED:**	**$11,657,582.56**

Submitted Proposals FY20-FY22



Proposals FY 22



FY22 Total Proposals: 232