Annual Report on Research

FY 2023

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

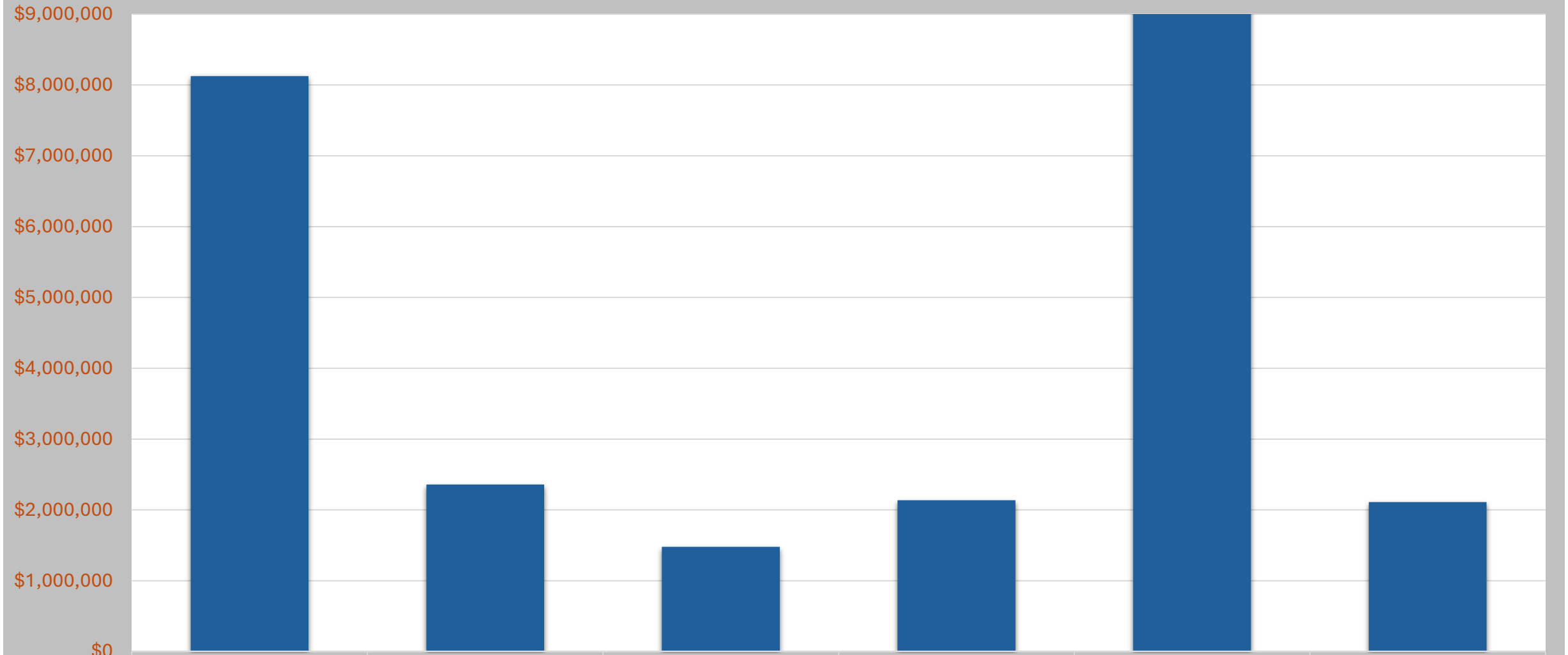
Dr. Mark Liles
Amy Thomas, J.D.
Kris Rinker

Release date: March 29, 2024

COSAM Data FY23

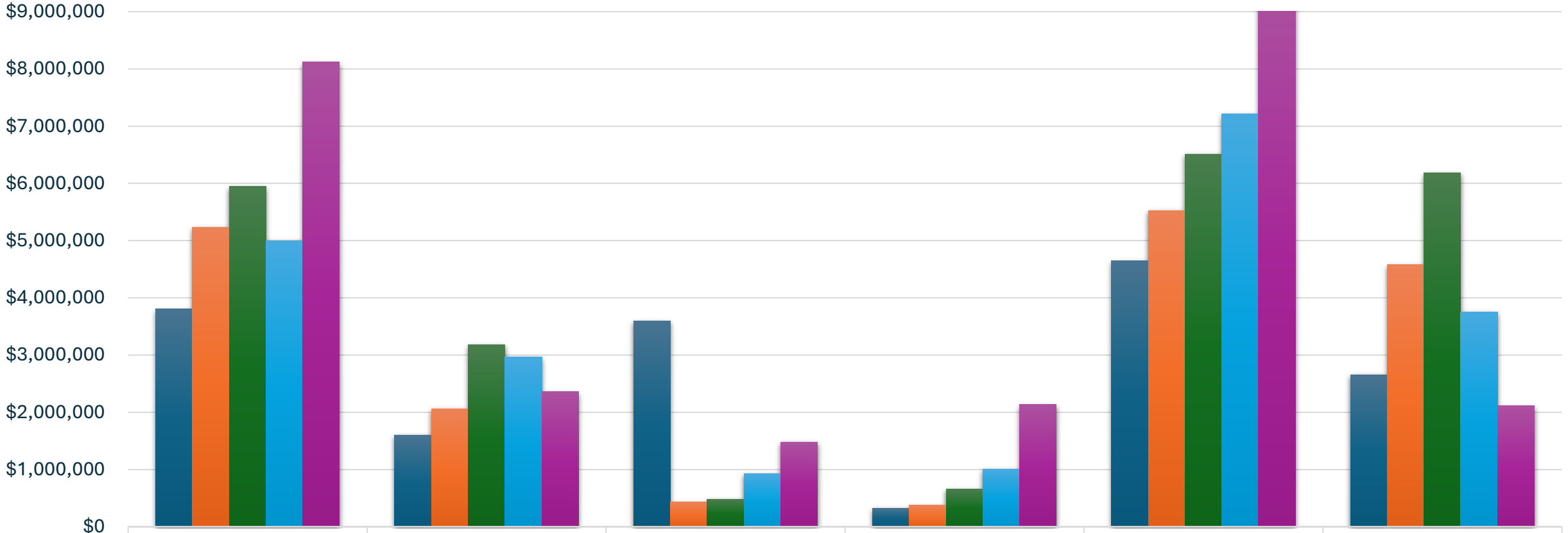
- COSAM Extramural Budget Loads by Department FY23
- COSAM 5 Year Funding History by Department-FY18-FY23
- COSAM Funding by Sponsor FY23

COSAM Extramural Budget Loads by Department
FY 23



	Biological Sciences	Chemistry/Biochemistry	Geosciences	Math/Statistics	Physics	Outreach/Admin
Funding	$8,123,906	$2,359,134	$1,477,910	$2,135,857	$9,421,823	$2,110,287

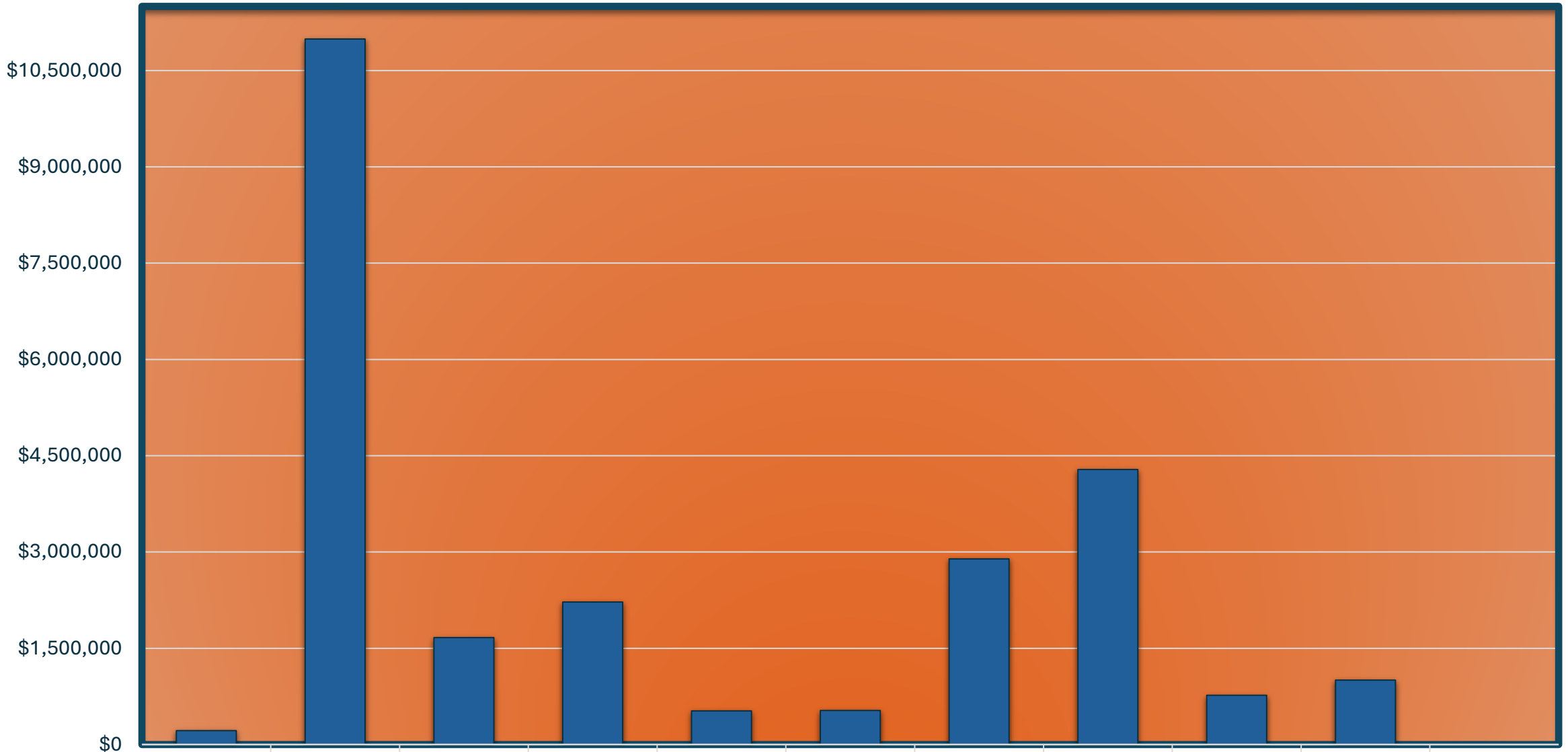
COSAM 5 Year Funding History by Department



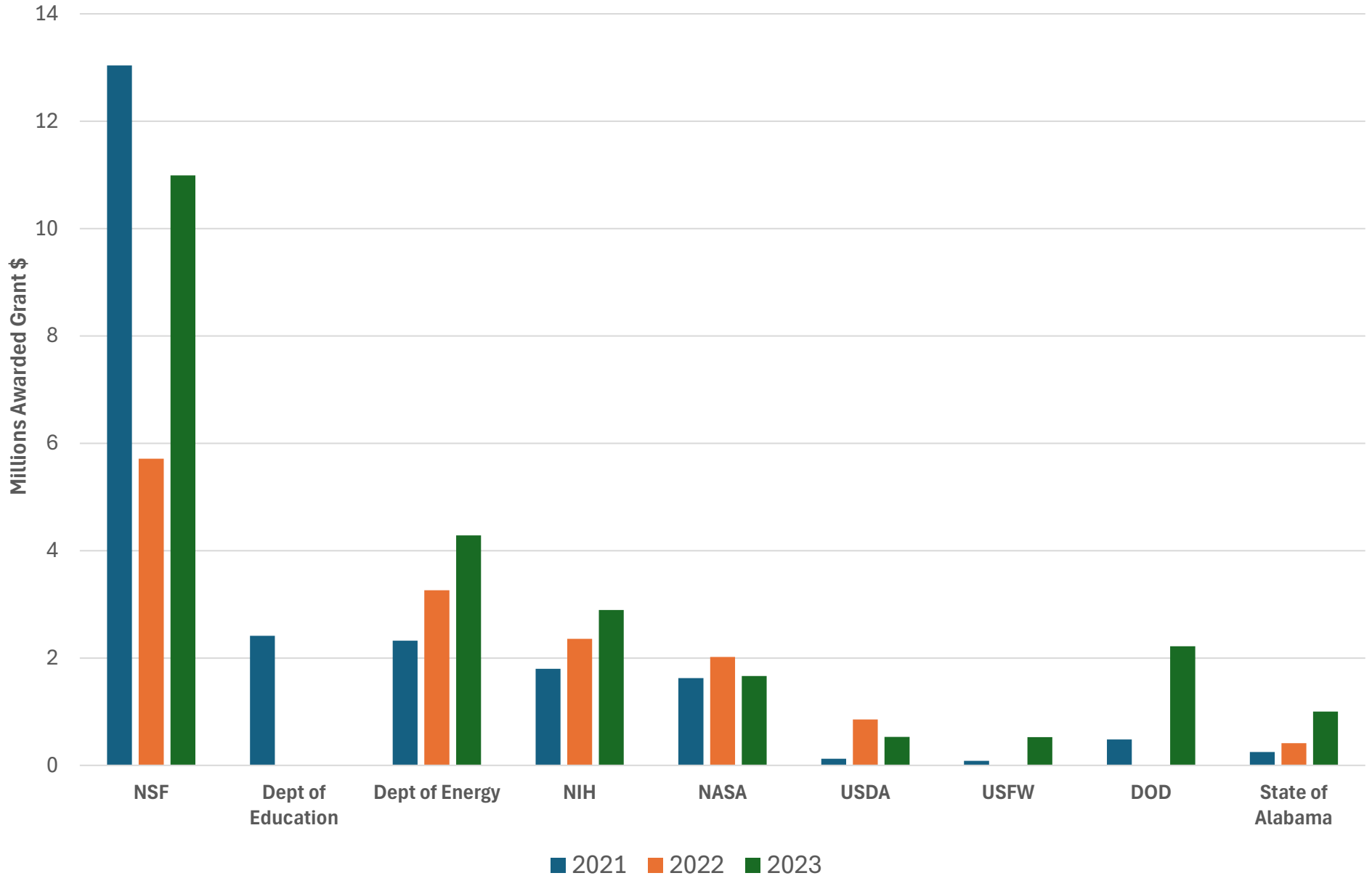
	Biological Sciences	Chemistry & Biochemistry	Geosciences	Mathematics & Statistics	Physics	Outreach/Admin
FY2019	$3,803,724	$1,604,457	$3,595,528	$325,978	$4,647,984	$2,658,317
FY2020	$5,234,827	$2,063,606	$433,519	$375,554	$5,526,497	$4,576,477
FY2021	$5,943,513	$3,182,937	$483,434	$661,817	$6,511,948	$6,188,454
FY2022	$5,000,646	$2,964,648	$926,651	$1,011,106	$7,209,799	$3,753,873
FY2023	$8,123,906.22	$2,359,134.07	$1,477,910.08	$2,135,856.88	$9,421,822.99	$2,110,286.60

FY2019 FY2020 FY2021 FY2022 FY2023

COSAM Funding by Sponsor FY 23



	Corp/Foundation	NSF/NSF Flow	NASA/NASA Flow	Military DOD/ Army/ AF/Flow	USFW/Flow	USDA	NIH/Flow	DOE (Energy)/Flow	Other	State of Alabama
Total	$216,461	$10,991,849	$1,666,327	$2,220,364	$524,149	$530,505	$2,892,334	$4,284,721	$767,571	$1,003,637


14
12
10
8
6
4
2
0
Millions Awarded Grant $
NSF
Dept of Education
Dept of Energy
NIH
NASA
USDA
USFW
DOD
State of Alabama
2021
2022
2023

Breakdown of Data by Academic Units FY 23

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

- Departmental data will be presented as follows:
  - Table of 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

Biology Extramural Grants with New Dollars received FY23

Proposal ID	PI/COPI	Title	Sponsor	Amount	Flow
0082-23	Bassar, Ron	BEE: The evolution of fluctuation-dependent species coexistence	NSF	$1,208,529.00	FEDERAL
0229-23	Buckley, Kate	URoL: Epigenetics 1: Influence of environmental change on the epigenome and phenotypic plasticity in purple sea urchins	Texas A&M University (NSF Flow)	$132,566.00	NSF
0516-23	Buckley, Kate	AUTeach: An implementation of the UTeach STEM teacher preparation program at Auburn University	Alabama Commission on Higher Education-ACHE	$35,000.00	STATE OF ALABAMA
1008-23	Buckley, Kate	Conference: North American Comparative Immunology 2023	NSF	$20,000.00	FEDERAL
0664-23	Buckley, Kate	Developmental biology of sea urchins and other marine vertebrates XXXVII	Society for Developmental Biology	$4,000.00	OTHER
1688-23	Buckley, Kate	Developmental Biology of the Sea Urchin and Marine Invertebrates (DBSUMI) Meeting XXVII	DHHS-PHS-NIH-NICHD-National Institute of Child Health and Human Development	$10,000.00	FEDERAL
1551-23	Callahan, Melissa	Butterfly survey of Ft. McClellan	Seay, Seay & Litchfield Architects (DOD Flow)	$24,343.55	DOD-ARMY
1360-23	Churchman, Emily; Liles, Mark	Evaluation of a recombinant Flavobacterium covae vaccine in conjunction with a dietary probiotic in channel catfish (Ictalurus punctatus)	USDA - NIFA - National Institute of Food & Agriculture	$180,000.00	FEDERAL
0196-23	Counterman, Brian	Enhancing captive breeding efforts toward the recovery of the eastern indigo snake (Year 2)	Florida Fish & Wildlife Conservation Commission (USFWS Flow)	$22,481.00	USDI-FWS
1551-23	Counterman, Brian	Butterfly survey of Ft. McClellan	Seay, Seay & Litchfield Architects	$24,343.55	DOD –ARMY
1183-23	Counterman, Brian	CAREER: Physiological genomics of sexually dimorphic developmental plasticity on butterfly wings	NSF	$160,000.00	FEDERAL

Biological Sciences Extramural Grants with New Dollars received FY23

Proposal ID	PI/COPI	Title	Sponsor	Amount	Flow
0339-23	Fenner, Jennifer	Embryonic timing comparisons across Lepidoptera (2023 Ecolab Program)	Texas Ecological Laboratory Program	$9,523.80	OTHER
1896-23, 0708-23	Fenner, Jennifer	Collaborative research: Genomic mechanisms controlling the slow development of Antarctic urchin Sterechinus neumayeri	NSF	$132,782.00	FEDERAL
1630-23	Flores, Adriana Avila	Assessment of immune responses generated by BAPCs associated with Ovaalbumin (OVA) mRNA following intramuscular administration	Phoreus Biotechnology, Inc.	$23,523.90	INDUSTRY
0259-23	Godwin, James	Reintroduction of the eastern indigo snake onto Conecuh National Forest	ADCNR	$99,485.90	USDI-FWS
0264-23	Godwin, James	Occurrence of western chicken turtle	Louisiana Department of Wildlife and Fisheries	$49,385.00	USDI-FWS
1674-23	Godwin, James	Using genomic resources to proactively monitor imperiled species on Department of Defense lands: Alligator snapping turtle sampling	Tangled Bank Conservation	$28,135.00	DOD-NAVY
1204-23	Godwin, James	Genetic &Habitat Analysis To Support Recovery Efforts For Flattened Musk Turtle	ADCNR	$92,844.67	USDI-FWS
1537-22, 1444-23, 1136-23	Hood, Wendy	NSF Graduate research fellowship program (GRFP) for Emma Rhodes	NSF	$86,188.00	FEDERAL
1469-23, 1589-23	Hood, Wendy	The roles of mitochondrial behavior and morphology in animal performance	NSF	$950,000.00	FEDERAL
1540-23	Lawson, Katelyn	Habitat suitability modeling and site verification for the Tennessee yellow-eyed grass (Xyris tennesseenis) in Alabama	ADCNR	$9,273.00	USDI-FWS
1545-23	Lawson, Katelyn	Status assessment for swamp buckthorn (Sideroxylon thornei) in Alabama - Phase 2	ADCNR	$9,273.00	USDI-FWS

Biological Sciences Extramural Grants with New Dollars received FY23

Proposal ID	PI/COPI	Title	Sponsor	Amount	Flow
2032-23	Lawson, Katelyn	Technical assistance for stream monitoring and assessment in the PL566 Middle Tennessee irrigation project area	USDA - NRCS - Natural Resources Conservation Service	$70,564.00	FEDERAL
0197-23	Liles, Mark	Testing bacterial strains for inhibition of Pythium growth and damping off in corn and soybean	BASF Corporation	$14,248.80	INDUSTRY
1849-22A	Liles, Mark	Development of a simple and easy to use diagnostic assay for rapid detection of virulent strains of Aeromonas hydrophila (vAh)	Varigen Biosciences (USDA Flow)	$25,532.00	USDA FLOW
1928-22A	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 - NIFA - National Institute of Food & Agriculture	$95,815.00	FEDERAL
0446-23	Liles, Mark	Developmental studies for a fish vaccine	Merck Animal Health (formerly Intervet)	$45,940.84	INDUSTRY
0824-23	Liles, Mark	Assessment of the immunomodulatory effect of probiotics on the catfish adaptive immune response and columnaris disease resistance	USDA - ARS - Agricultural Research Service	$120,598.00	FEDERAL
0196-23	Oaks, Jamie R.	Enhancing captive breeding efforts toward the recovery of the eastern indigo snake (Year 2)	Florida Fish & Wildlife Conservation Commission	$22,481.00	USDI-FWS
0649-23	Pendergrass, Morgan	Establishing a scientific basis for managing genetic diversity in botanical garden collections	The Morton Arboretum	$2,505.00	IMLS
1538-23	Pendergrass, Morgan	Clematis socialis habitat assessment	ADCNR - Alabama Dept of Conservation & Natural Resources	$8,377.00	USDI-FWS
1651-23	Pendergrass, Morgan	On-the-ground management activities for white fringeless orchid in Alabama	Atlanta Botanical Garden	$2,439.50	USDI-FWS

Biological Sciences Extramural Grants with New Dollars received FY23

Proposal ID	PI/COPI	Title	Sponsor	Amount	Flow
0205-23	Petrov, Alexey	Mechanism of translation initiation on leaderless mRNAs	DHHS-PHS-NIH-NIAID-National Institute of Allergy & Infectious Diseases	$221,663.00	FEDERAL
0920-23	Range, Ryan	Embryonic timing comparisons across Lepidoptera (2023 Ecolab Program)	Texas Ecological Laboratory Program	$96.20	OTHER
0708-23; 1896-23	Range, Ryan	Collaborative research: Genomic mechanisms controlling the slow development of Antarctic urchin Sterechinus neumayeri	NSF	$398,346.00	FEDERAL
1450-23	Range, Ryan	NSF Graduate Research Fellows Program (GRFP) - Cheikhouna Ka	NSF	$24,500.00	FEDERAL
1551-23	Schotz, Al	Butterfly survey of Ft. McClellan	Seay, Seay & Litchfield Architects	$20,865.90	INDUSTRY-DOD-US ARMY FLOW
1540-23	Schotz, Al	Habitat suitability modeling and site verification for the Tennessee yellow-eyed grass (Xyris tennesseenis) in Alabama	ADCNR	$9,273.00	FEDERAL-USDI-FWS
1545-23	Schotz, Al	Status assessment for swamp buckthorn (Sideroxylon thornei) in Alabama - Phase 2	ADCNR	$9,273.00	FEDERAL-USDI-FWS
1863-23	Schotz, Al	Black Belt prairie assessment FY 23&FY 24	ADCNR	$152,567.74	FEDERAL-USDI-FWS
0104-23	Schwartz, Tonia S.	Conservation genetics of Louisiana pine snakes: Validation of artificial insemination	Memphis Zoo	$781.00	OTHER
1161-23	Schwartz, Tonia S.	Monitoring of gopher tortoises in an experimental population consolidation at Geneva Wildlife Management Area	Eckerd College (Florida)	$20,943.00	UNIVERSTIY-USDI-FWS FLOW
1321-23	Schwartz, Tonia S.	Collaborative Research: How to get SMAL: Studying island dwarfism to find shared molecular mechanisms across life history traits	NSF	$560,834.00	FEDERAL

Biological Sciences Extramural Grants with New Dollars received FY23

Proposal ID	PI/COPI	Title	Sponsor	Amount	Flow
0286-23	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	C.B. Dennis British Beekeepers Research Trust	$33,013.00	OTHER
0928-23	Smith, Michael	The 3-dimensional nest of the honey bee: Organization, development, and impact on colony function	NSF	$915,302.27	FEDERAL
1361-23	Stevison, Laurie	The role of oogenesis in speciation	DHHS-PHS-NIH-NIGMS-National Institute of General Medical Sciences	$374,255.00	FEDERAL
0649-23	Thompson, Patrick	Establishing a scientific basis for managing genetic diversity in botanical garden collections	The Morton Arboretum	$7,515.00	IMLS
1538-23	Thompson, Patrick	Clematis socialis habitat assessment	ADCNR	$8,377.00	FEDERAL-USDI-FWS
1651-23	Thompson, Patrick	On-the-ground management activities for white fringeless orchid in Alabama	Atlanta Botanical Garden	$2,439.50	FEDERAL-USDI-FWS
1489-23	Upton, Jason	Role of deubiquitinases in CMV pathogenesis	DHHS-PHS-NIH-NIAID-National Institute of Allergy & Infectious Diseases	$456,008.00	FEDERAL
0259-23	Warner, Daniel	Reintroduction of the eastern indigo snake onto Conecuh National Forest	ADCNR	$5,236.10	FEDERAL-USDI-FWS
1441-23	Warner, Daniel	NSF Graduate Research Fellows Program (GRFP) - Chris Norris	NSF	$49,000.00	FEDERAL
2032-23	Werneke, David	Technical assistance for stream monitoring and assessment in the PL566 Middle Tennessee irrigation project area	USDA - NRCS - Natural Resources Conservation Service	$37,996.00	FEDERAL
0659-23A	Wolak, Matthew	CAREER: Empirical tests of the fundamental theorems of evolution and natural selection	NSF	$1,095,443.00	FEDERAL
			TOTAL:	**$8,123,906.22**	

Biological Sciences Active Awards FY23

PI/COPI	Sponsor	Title	Start Date	End Date
Aaron Rashotte	NSF	EAGER-FORGOTTEN N-CONJUGATE CYTOKININS &THEIR ACTIVE ROLE DURING SENESCENCE	7/15/2021	6/30/2024
Adriana Avila Flores	Phoreus Biotechnology, Inc	EVAL OF INFLAMMATORY POTENTIAL OF BACPs &THEIR EFFICACY IN DELIVERING mRNA IN VIVO	7/15/2022	12/31/2022
Adriana Avila Flores	Phoreus Biotechnology, Inc	ASSES IMMUNE RESPONSE GENERATED BY BPACs ASSOCIATED WITH OVA mRNA FOLLOWING INTRAMUSCULAR ADMINISTRATION	7/6/2023	4/30/2024
Adriana Avila Flores	NIH	DELIVERY OF ANTI-FUNGAL DSRNA INTO YEAST AND FILAMENTOUS FUNGI USING LASER-ACTIVATED NANOPARTICLES	9/20/2021	8/31/2024
Alexey Petrov	NIH	MECHANISM OF TRANSLATION INITIATION ON LEADERLESS mRNAs	11/10/2022	10/31/2024
Alfred Schotz	ADCNR	BLACK BELT PRAIRIE ASSESSMENT	10/1/2022	9/30/2023
Alfred Schotz	US Department of the Interior	RANGE-WIDE STATUS ASSESSMENT FOR RAVINE SEDGE	10/1/2020	9/30/2023
Alfred Schotz	ADCNR	RUDBECKIA HELIOPSIDIS PROJ	10/1/2022	9/30/2023
Alfred Schotz	ADCNR	BAPTISIA MEGACARPA PROJECT	10/1/2022	9/30/2023
Alfred Schotz	ADCNR	BLACK BELT PRAIRIE ASSESSMENT	10/1/2023	9/30/2024
Brian Counterman	NSF	PHYSIOLOGICAL GENOMICS OF SEXUALLY DIMORPHIC DEVELOPMENTAL PLASTICITY ON BUTTERFLY WINGS	2/15/2022	1/31/2027
Brian Counterman/Al Schotz/Melissa Callahan	Seay, Seay & Litchfield, P.C.	SUMMER BUTTERFLY SURVEY AT FORT MCCLELLAN	6/16/2023	6/15/2024
Brian Counterman/Ryan Range	University of Puerto Rico at Rio Piedras	GENOMIC LOGIC UNDERLYING ADAPTIVE MORPHOLOGICAL DIVERGENCE	5/1/2021	7/31/2024
Courtney Leisner	USDA	DISSECTING THE PHYSIOLOGICAL MECHANISMS OF PLANT NUTRIENT REPSONSES TO RISING ATMOSPHERIC CARBON DIOXIDE LEVELS	11/1/2021	10/31/2024
Courtney Leisner	USDA	UNDERSTANDING PLANT NATURAL PRODUCT BIOSYNTHESIS IN BLUEBERRY THRU CORE GENE DISCOVERY	1/15/2022	1/14/2025
Daniel Jones	NSF	COMPARATIVE GENOMICS OF THE CAPITULUM: DECIPHERING THE MOLECULAR BASIS OF A KEY FLORAL INNOVATION	11/1/2022	10/31/2026
Daniel Warner	NSF	GRADUATE RESCH FLLWSHP PROG FOR CHRIS NORRIS	6/1/2022	5/31/2024
Daniel Warner	American Society of Ichthyologists &Herpetologists	GAIGE FUND AWARD FOR M MUELL	7/5/2023	7/31/2024

Biological Sciences Active Awards FY23

PI/COPI	Sponsor	Title	Start Date	End Date
Daniel Warner	NSF	TESTING ALTERNATIVE ROUTES OF ADAPTIVE PHENOTYPE-ENVIRONMENT MATCHING ACROSS HETEROGENEOUS LANDSCAPES IN WILD POPULATIONS	3/1/2020	2/28/2025
Elizabeth Schwartz	NSF	COCKROACH GUT MICROBIOME: EVAL PRESSURES FROM INFLAMMATION &BACTERIOPHAGE	8/1/2021	7/31/2024
Emily Churchman/Mark Liles	USDA	EVAL OF RECOMBIANT FLAVOBACTERIUM COVAE VACCINE IN CONJUCTION W/DIETARY PROBIOTIC IN CHANNEL CATFISH	6/15/2023	6/14/2026
Geoffrey Hill	NSF	RED CAROTENOIDS AS SIGNALS OF RESPIRATORY CHAIN FUNCTION	8/15/2018	7/31/2023
Geoffrey Hill	NSF	UNDERSTANDING THE RULES OF HONEST SIGNALING	8/1/2021	7/31/2025
Haruka Wada	NSF	CAREER: PROTEOSTASIS TO ALLOSTASIS: INTEGRATION OF CELLULAR- AND ORGANISMAL-LEVEL STRESS RESPONSES	4/15/2016	3/31/2024
Haruka Wada	NSF	GRADUATE RESCH FLLWSHP PROG FOR VICTORIA COUTTS	6/1/2020	5/31/2024
Haruka Wada/Tonia Schwartz	NSF	INTEGRATING ENGINEERING THEORY &BIOLOGICAL MEASURES TO MODEL STRESS RESILIENCE, DAMAGE &FITNESS-RELATED CONSEQUENCES	6/15/2020	5/31/2024
James Godwin	ADCNR	GENETIC &HABITAT ANALYSIS TO SUPPORT RECOVERY EFFORTS FOR FLATTENED MUSK TURTLE	10/1/2022	9/30/2023
James Godwin	Louisiana Department of Wildlife and Fisheries	OCCURRENCE OF WESTERN CHICKEN TURTLES	2/1/2023	9/30/2024
James Godwin	Tangled Bank Conservation	USING GENOMIC RESOURCES TO PROACTIVELY MONITOR IMPERILED SPECIES ON DOD LANDS	8/1/2023	12/31/2024
James Godwin	USDA	USDA FOREST SERV/BNK AU ANHP AQUATICS eDNA AGREEMENT	6/19/2020	4/30/2025
James Godwin/Daniel Warner	ADCNR	RETURN OF EASTERN INDIGO SNAKE ONTO CONECUH	10/1/2022	9/30/2023
Jamie Oaks	NSF	GENERALIZING BAYESIAN PHYLOGENETICS TO INFER SHARED EVOLUTIONARY EVENTS	5/1/2017	4/30/2023
Jamie Oaks/Brian Counterman	State of Florida	ENHANCING CAPTIVE BREEDING EFFORTS TOWARD THE RECOVERY OF THE EASTERN INDIGO SNAKE	12/13/2022	6/30/2023
Jason Upton	NIH	THE FIFTH NUCLEOTIDE & ITS POTENTIAL TO MODULATE LONG NON-CODING RNA STRUCTURE	5/6/2020	4/30/2024
Jason Upton	NIH	ROLE OF DEUBIQUITINASES IN CMV PATHOGENESIS	7/5/2023	6/30/2026
Jennifer Fenner/ Ryan Range	Private Landowners-Texas Ecolab	HOW DOES THE EMBRYONIC DVLMT OF TX POLLINATOR &PEST BUTTERFLIES DIFFER?	5/1/2022	12/31/2022
Jennifer Fenner/ Ryan Range	Private Landowners-Texas Ecolab	TEXAS ECOLOGICAL LAB PROG	1/1/2023	12/31/2024

Biological Sciences Active Awards FY23

PI/COPI	Sponsor	Title	Start Date	End Date
Joanna Sztuba-Solinska	NIH	INTERPLAY BETWEEN m6A &VIRAL lncRNA DURING KSHV REPLICATION	3/4/2021	10/1/2022
Jonathan Armbruster	Coypu Foundation Trust	AQUATIC BIODIVERSITY NVENTORY OF THE NEW RIVER TRIANGLE, GUYANA	1/1/2021	2/28/2023
Jonathan Armbruster	ADCNR	ENVIRONMENTAL ED AT THE ROBERT G WEHLE NATURE CTR	9/28/2023	7/31/2024
Jonathan Armbruster/James Godwin	ADCNR	INVESTIGATION OF ALA RED-BELLIED TURTLE NESTING IN AM ALLIGATOR NESTS	10/1/2021	9/30/2023
Jonathan Armbruster/James Godwin	US Department of the Interior	FLATTENED MUSK TURTLE &BLACK WARRIOR WATERDOG POPULATION STATUS STUDY IN BANKHEAD NATL FOREST	10/1/2020	12/31/2023
Jonathan Armbruster/Katelyn Lawson	University of Florida	PROPELLER SCARRING HOT SPOT ANALYSIS &BEHAVIOR CHANGE-SOCIAL MARKETING CAMPAIGN FOR TAMPA BAY	2/2/2022	12/31/2023
Katelyn Lawson	ADCNR	AL STATE WILDLIFE ACTION PLAN REVISION	8/1/2023	9/30/2023
Katelyn Lawson	National Fish and Wildlife Foundation	ASSESSMENT &PRIORITIZATION OF BARRIERS TO CONNECTIVITY IN THE UCHEE CREEK WTRSHED	1/16/2023	1/15/2026
Katelyn Lawson	National Fish and Wildlife Foundation	ASSESSMENT &PRIORITIZATION OF BARRIERS TO CONNECTIVITY IN THE UCHEE CREEK WTRSHED	1/16/2023	1/15/2026
Katelyn Lawson/David Werneke	USDA	TECHNICAL ASSISTANCE FOR STREAM ASSESSMENT IN THE PL566 MIDDLE TN IRRIGATION PROJECT AREA	9/30/2023	9/29/2028
Katherine Buckley	Society for Developmental Biology	DVLMNTL BIOLOGY OF SEA URCHINS &OTHER MARINE VERTEBRATES XXVII	6/1/2023	12/31/2023
Katherine Buckley	NSF	N AM COMPARATIVE IMMUNOLOGY 2023-PARTICIPANT SUPPORT COSTS ONLY	5/1/2023	4/30/2024
Katherine Buckley	NIH	DBSUMI MEETING XXVII	6/1/2023	5/31/2024
Katherine Buckley	Texas A&M University	UROL:EPIGENETICS 1: INFLUENCE OF ENVIROMENTAL CHANGE ON THE EPIGENOME & PHENOTYPIC IN PUPLE SEA URCHINS	8/1/2022	6/30/2025
Katherine Buckley	NSF	REGULATORY CONTROL OF THE SYSTEM-WIDE INNATE IMMUNE RESPONSE IN MARINE INVERTEBRATES	7/15/2022	6/30/2025
Kenneth Halanych	NSF	HAVE TRANSANTARCTIC DISPERSAL CORRIDORS IMPACTED ANTARCTIC MARINE BIODIVERSITY	9/1/2019	8/31/2023
Kenneth Halanych/Jonathan Armbruster	NSF	DOCUMENTING MARINE BIODIVERSITY THRU DIGITIZATION OF INVERTEBRATE COLLECTIONS	11/1/2020	10/31/2024

Biological Sciences Active Awards FY23

PI/COPI	Sponsor	Title	Start Date	End Date
Laurie Stevison	NSF	ROLE OF THE ENVIRONMENT ON THE EVOLUTION OF RECOMBINATION RATES	8/15/2019	7/31/2023
Laurie Stevison	NIH	ROLE OF OOGENESIS IN SPECIATION	8/18/2022	6/30/2024
Leslie Pendergrass/Patrick Thompson	Atlanta Botanical Garden	MGT ACTIVITIES FOR WHITE FRINGELESS ORRCHID IN AL	7/24/2023	9/30/2024
Leslie Pendergrass/Patrick Thompson	Morton Arboretum	ESTABLISHING A SCIENTIFIC BASIS FOR MANAGING GENETIC DIVERSITY IN BOTANIC GARDEN COLLECTIONS	2/1/2023	7/31/2025
Margaret Ballen	NSF	FOSTERING IDEOLOGICAL AWARENESS IN THE CONTEXT OF POSTSECONDARY BIOLOGY THRU OPEN-SOURCE COURSE MODULES	10/1/2021	9/30/2024
Margaret Ballen	NSF	DIVERSIFYING &HUMANIZING SCIENTIST ROLE MODELS TO INCREASE IMPACT OF DATA LITERACY INSTRUCTION ON STUDENT INTEREST &RETENTION IN STEM	10/1/2020	9/30/2025
Margaret Ballen/Abby Beatty	Montana State University-Billings	FOSTERING IDEOLOGICAL AWARNESS IN POSTSECONDARY BIOLOGY THRU OPEN-SOURCE COURSE MODULES	7/2/2021	9/30/2023
Margaret Ballen/Jordan Harshman	Regents of the University of Minnesota	EQUITY &DIVERSITY IN UNDERGRADUATE STEM	9/1/2019	8/31/2024
Marie Strader	NSF	STUDIES OF RECOVERY FROM BLEACHING IN ACROPORA HYACINTHUS: EPIGENETIC SHIFTS, IMPACTS ON REPRODUCTIVE BIOLOGY & CARRY-OVER EFFECTS	6/15/2019	12/31/2022
Marie Strader/Kate Buckley	NSF	INFLUENCE OF ENVIRONMENTAL CHANGE ON THE EPIGENOME & PHENOTYPE PLASTICITY IN PURPLE SEA URCHINS	7/15/2020	6/30/2023
Mark Liles	Citrus Extracts LLC	EVAL OF CITRAFIBER AS A PREBIOTIC TO ENHANCE BACILLUS GROWTH & AVOID SOYBEAN GERMINATION INHIBITION	11/1/2020	12/31/2022
Mark Liles	SINTEF	TRANSNATIONAL PARTNERSHIP ON FUNCTIONAL METAGENOMICS FOR FOR BIOPHARMACEUTICAL INNOVATION	4/22/2019	9/30/2023
Mark Liles	NASA	REDUCING BIOBURDEN OF EUROPA LANDER SOLID ROCKET MOTOR INSULATION & ASSESSING BIOBURDEN OF OTHER SRM NONMETALLIC MATERIALS OF CONCERN FOR PLANETARY PROTECTION	2/14/2020	2/13/2024
Mark Liles	Varigen Biosciences Corp	DVLMT OF SIMPLE &EASY TO USE DIAGNOSTIC ASSAY FOR RAPID DETECTION OF VIRULENT STRAINS OF AEROMONAS HYDROPHILA	9/1/2022	2/28/2024
Mark Liles	US Department of Agriculture	RAPID VALIDATION OF IMMUNOGENIC TARGETS FROM HYPERVIRULENT AEROMONAS HYDROPHILA FOR DVLMT OF RECOMBINANT PROTEIN VACCINE AGAINST vMAS IN CHANNEL CATFISH	9/10/2022	9/9/2024
Mark Liles	BASF Corporation	TESTING BACTERIAL STRAINS FOR INHIBITION OF PYTHIUM GROWTH &DAMPING OFF IN CORN &SOYBEAN	11/1/2022	12/31/2024

Biological Sciences Active Awards FY23

PI/COPI	Sponsor	Title	Start Date	End Date
Mark Liles	USDA	ASSESSMENT OF IMMUNOMODULATORY EFFECT OF PROBIOTICS ON THE CATFISH ADAPTIVE IMMUNE RESPONSE &COLUMNARIS DISEASE RESISTANCE	7/1/2020	6/30/2025
Matthew Wolak	NSF	EMPIRICAL TESTS OF THE FUNDAMENTAL THEOREMS OF EVOLUTION &NATUAL SELECTION	2/15/2023	1/31/2028
Michael Smith	CB Dennis British Beekeepers	BEES IN THE LOOP TO REVEAL THE BEHAVIORAL RULES BEHIND COMB BUILDING	1/1/2023	12/31/2024
Michael Smith	NSF	3-DIMENSIONAL NEST OF THE HONEY BEE: ORGANIZATION, DVLMNT &IMPACT ON COLONY FUNCTION	1/1/2023	12/31/2026
Min Zhong	University of Wyoming	EMBEDDING METACOGNITION INTO INTRODUCTORY BIOLOGY COURSES	7/15/2021	7/31/2024
Min Zhong	Biology Catalytic Grant	BIOLOGY CATALYTIC GRANT	8/20/2020	7/31/2024
Rita Graze	NSF	UNCOVERING MECHANISMS THAT SHAPE VARIATION IN HOW MALES & FEMALES DIFFER IN THEIR GENE EXPRESSION	8/1/2018	7/31/2025
Ronald Bassar	NSF	EVOLUTION OF FLUCTUATION-DEPENDENT SPECIES COEXISTENCE	11/1/2022	6/30/2024
Ryan Range	NIH	DEVELOPMENTAL BIOLOGY OF SEA URCHIN &OTHER MARINE INVERTEBRATES	2/1/2020	1/31/2023
Ryan Range	NSF	GRADUATE RESCH FLLWSHP PROG FOR CHEIKHOUNA KA	9/1/2021	8/31/2024
Ryan Range	NIH	WNT SIGNALING PATHWAY INTERACTIONS IN EARLY ANTERIOR-POSTERIOR SPECIFICATION &PATTERNING	3/6/2021	2/28/2025
Ryan Range/Jennifer Fenner	NSF	GENOMIC MECHANISMS CONTROLLING THE SLOW DVLMT OF ANTARCTIC URCHIN STERECHINUS NEUMAYERI	9/15/2022	8/31/2025
Tonia Schwartz	Memphis Zoo	PATERNITY ANALYSIS OF AI LOUISIANA PINE SNAKES	3/14/2022	3/13/2023
Tonia Schwartz	Eckerd College Athletics	MONITORING OF GOPHER TORTOISES IN AN EXPERIMENTAL POPULATION CONSOLIDATION AT GENEVA MGT AREA	5/1/2023	9/30/2023
Tonia Schwartz	NSF	COLLAB RSCH: HOW TO GET SMAL: STDY ISLAND DWARFISM TO FIND SHARED MOLECULAR MECHANISMS ACROSS LIFE HISTORY TRAITS	7/1/2023	6/30/2027
Tonia Schwartz/Rita Graze	NSF	NEW VERTEBRATE MODEL TO STUDY THE ROLE OF GROWTH FACTORS IGF1 & IGF2 IN SEX DIMORPHISM OF LONGEVITY & AGING	8/1/2019	7/31/2023
Wendy Hood	NSF	EFFECTS OF INCREASING TEMP &ULTRAVIOLET RADIATION ON COPEPOD MITOCHONDRIA ALONG A LATITUDINAL GRADIENT	12/1/2021	11/30/2023
Wendy Hood	NSF	GRADUATE RESCH FLLWSHP PROG FOR EMMA RHODES	6/1/2022	5/31/2024
Wendy Hood	NSF	ROLES OF MITOCHONDRIAL BEHAVIOR &MORPHOLOGY IN ANIMAL PERFORMANCE	8/1/2023	7/31/2026
Wendy Hood/Andreas Kavazis	USC Upstate	RII TRACK-2 GENOME TO FITMESS: AN ANALYSIS OF THE STRESS RESPONSE IN PEROMYSCUS	8/1/2017	7/31/2024

Biological Sciences Submitted Proposals FY23

Proposal ID	PI/COPI	Title	Sponsor	Amount Requested
1314-23P	Adams, Paula	your STEM Education Individual Postdoctoral Research Fellowship (STEM Ed IPRF)	NSF	$283,447.80
0229-23P	Armbruster, Jonathan	Ecology and Biogeography of Diversification in a Transcontinental Freshwater Fish Radiation	NSF	$784,370.00
1628-23P	Armbruster, Jonathan	Environmental Education at the Robert G. Wehle Nature Center	ADCNR	$15,000.00
1146-23P	Avila Flores, Adriana	Inter-individual variability in lung mRNA delivery mediated by branched amphiphilic peptide capsules (BAPCs)	NIH	$969,442.97
1409-23P	Avila Flores, Adriana	CAREER: Branched Amphiphilic Peptide Capsules (BAPCs) for the delivery of lethal dsRNA into invasive organisms	NSF	$555,134.67
0581-23P	Avila Flores, Adriana	Inter-individual variability in biodistribution and toxicity of lung-targeting nanomedicines	NIH	$969,422.97
1313-32P	Avila Flores, Adriana	Assessment of immune responses generated by BAPCs associated with Ovaalbumin (OVA) mRNA following intramuscular administration	Phoreusbiotec	$23,523.90
0421-23P	Ballen, Cissy	RCN-UBE incubator: Developing a shared vision to ethically integrate diversified and humanized role models in undergraduate biology education.	NSF	$74,996.80
0382-23P	Ballen, Cissy	Test Anxiety: Rethinking Assessment in Introductory STEM (TARA)	NSF	$192,005.38
1006-23P	Ballen, Cissy	Developing and deploying novel tools to support varroa mite IPM for enhancing honey bee health for pollinating specialty crops	Ohio State University	$723,360.01
1365-23P	Ballen, Cissy	Collaborative Research – Testing effective humanizing elements of role models in life sciences with DataVersify	NSF	$942,952.00
1653-23P	Ballen, Cissy	Career-Life Balance (CLB) Supplemental Funding Request: Diversifying and humanizing scientist role models to increase the impact of data literacy instruction on student interest and retention in STEM	NSF	$24,516.84
1656-23P	Ballen, Cissy	Career-Life Balance Supplemental Funding Request: Fostering Ideological Awareness in the Context of Postsecondary Biology through Open-source Course Modules	NSF	$22,212.72

Biological Sciences Submitted Proposals FY23

Proposal ID	PI/COPI	Title	Sponsor	Amount Requested
0424-23P	Bassar, Ronald	Does adaptation to different environmental stressors increase animal welfare?	Wild Animal Initiative	$198,592.00
0213-23P	Bernal, Moises	Evaluating mechanisms of acclimation and local adaptation in a broadly distributed marine fish	NSF	$885,608.39
1412-23P	Bernal, Moises	CAREER: Adaptation and acclimation in the sea: how diverge in contrasting environments influences physiological and molecular responses	NSF	$1,473,923.63
	Buckley, Kate	2023 Developmental Biology of Sea Urchin and other Marine Invertebrates Meeting	NSF	$10,000.00
0709-23P	Buckley, Kate	Virtual Access for the 2023 Developmental Biology of Sea Urchin and other Marine Invertebrates Meeting	NSF	$8,604.00
ANP	Buckley, Kate	Conference Grant-ANP	Society of Developmental Biology	$4,000.00
0753-23P	Buckley, Kate	2023 North American Comparative Immunology Meeting	NSF	$20,000.00
0314-23P	Buckley, Kate	2023 Developmental Biology of Sea Urchin and other Marine Invertebrates Meeting	NIH	$10,000.00
1415-23P	Buckley, Kate	CAREER: A functional characterization of innate immune receptors in echinoderms	NSF	$1,250,952.25
1171-23P	Counterman, Brian	Butterfly surveys at Fort McClellan	Army	$69,553.00
1508-23P	Counterman, Brian	Indigo Snake YR 3	Florida Fish & Wildlife Conservation Commission	$39,962.00
0011-23P	Fenner, Jennifer	Embryonic timing comparisons across Lepidoptera	Texas Ecological Laboratory Program	$10,000.00
0080-23P	Godwin, James	Flattened Musk Turtle and Black Warrior Waterdog Population Monitoring in Bankhead National Forest	ADCNR	$40,909.00

Biological Sciences Submitted Proposals FY23

Proposal ID	PI/COPI	Title	Sponsor	Amount Requested
0180-23P	Godwin, James	Hybridization and standardized monitoring of the federally endangered Alabama red-bellied turtle (Pseudemys alabamensis)	Tangled Bank Conservation	$68,889.00
1400-23P	Godwin, James	Status Surveys for the Federally Threatened Red Hills Salamander (Phaeognathus hubrichti)	ADCNR	$82,988.00
1989-23	Godwin, James	Genetic &Habitat Analysis To Support Recovery Efforts For Flattened Musk Turtle	ADCNR	$92,844.67
	Godwin, James	Occurrence Of Western Chicken Turtles	LA Dept of Wildlife & Fisheries	$49,385.30
1404-23P	Godwin, James	USING GENOMIC RESOURCES TO PROACTIVELY MONITOR IMPERILED SPECIES ON DEPARTMENT OF DEFENSE LANDS: Alligator Snapping Turtle Sampling	Tangled Bank Conservation	$28,136.00
	Godwin, James	Reintroduction of the Eastern Indigo Snake onto Conecuh National Forest: 2021-2026	ADCNR	
	Hill, Geoffrey	NSF-BSF: THE PHYSIOLOGICAL BASIS FOR HYBRID BREAKDOWN AND HALDANE'S RULE	NSF	
0663-23P	Hood, Wendy	Integrating mitochondrial function to study physiological adaptations of reproduction and life-history variation	NSF	$40,289.82
1518-23P	Hood, Wendy	The bioenergetic basis for the repeated evolution of migration in birds	NSF	$1,741,453.72
0208-23P	Hood, Wendy	Working Title: Immune Function and mitochondrial dynamics and aging in dogs	Morris Animal Foundation	$41,173.00
0375-23P	Jones, Daniel	Deciphering the integrated mechanisms of host-mycobiome associated plant stress responses through ecological, physiological, and genomics frameworks	NSF	$264,776.12
1008-23P	Lawson, Katelyn	Technical assistance for stream monitoring and assessment in the PL566 Middle Tennessee Irrigation Project area	USDA	$249,492.30

Biological Sciences Submitted Proposals FY23

Proposal ID	PI/COPI	Title	Sponsor	Amount Requested
	Lawson, Katelyn	Title: Complete powerline rights-of-way map development, and assessment of habitat suitability and use of utility corridors by select species of conservation concern in the Southeast	US Fish & Wildlife Service	
	Lawson, Katelyn	PRE PROPOSAL: Community stormwater ponds as recreational fishing opportunities: improving pond quality to benefit human and wildlife use in Florida	National Fish & Wildlife Foundation	
0211-23P	Lawson, Katelyn	State Wildlife Action Plan contract	ADCNR	$422,977.00
0643-23P	Leisner, Courtney	Effects of Climate Change on the evolution of virulence in plant pathogens	NSF	$2,833,351.00
0643-23P	Liles, Mark	Development of a Novel Probiotic for Elimination of Off Flavor in Salmon RAS	Teliome LLC	$57,316.97
0612-23P	Liles, Mark	Development of a Novel Probiotic for Elimination of Off Flavor in Tilapia Aquaculture	Teliome LLC	$91,660.41
0149-23P	Liles, Mark	Testing bacterial strains for inhibition of Pythium growth and damping off in corn and soybean	NSF	$43,872.00
0036-23P	Liles, Mark	Probiotic feed to promote growth and health in catfish aquaculture	Teliome LLC	$57,653.00
0077-23P	Liles, Mark	Evaluation of a Recombinant Flavobacterium covae Vaccine in Conjunction with Dietary Probiotic in Channel Catfish	USDA	$180,000.00
1092-23P	Liles, Mark	Accelerating Translational Research in Semiconductor Packaging, Materials Sciences, and Manufacturing	NSF	$6,000,000.00
1085-23P	Liles, Mark	Evaluation of Efficacy and Duration of Immunity of different culture phases of adjuvanted Heat Killed Aeromonas hydrophila Bacterin for Channel Catfish	Merck Animal Health	$64,812.00
1500-23P	Liles, Mark	CitraFiber formulations to enhance efficacy of plant growth-promoting rhizobacteria (PGPR)	Citrus Extracts	$123,936.00

Biological Sciences Submitted Proposals FY23

Proposal ID	PI/COPI	Title	Sponsor	Amount Requested
1435-23P	Liles, Mark	Synthetic biology solutions for microbial crop protection against fungal and oomycete pathogens	Terra Bioforge Corp	$152,973.00
1666-23P	Liles, Mark	Probiotic feed to promote growth and health in catfish aquaculture	Teliome LLC	
1226-23P	Lotsch, Priscila	Impact of Micro- and Nanoplastics on Human Health: Towards a Systematic Understanding of Plastic Toxicity	NIH	$419,978.82
0197-23P	Pendergrass, Morgan	MG-251613-OMS-22 Establishing a scientific basis for managing genetic diversity in botanical garden collections	Morton Arboretum	$9,778.00
	Pendergrass, Morgan	Genetic management of C. pallida	Morton Arboretum	
ANP	Pendergrass, Morgan	ANP: Habitat improvement and monitoring of Clematis socialis (Alabama Leather Flower) at The Nature Conservancy's Dry Creek Preserve	ADCNR	$23,600.00
1399-23P	Pendergrass, Morgan	On-the-ground management activities for White Fringeless Orchid in Alabama	Atlanta Botonic Garden	$4878.58
0076-23P	Petrov, Alexey	Mechanism of -1 Programmed Ribosomal Frameshifting	NIH	$408,171.00
0022-23P	Petrov, Alexey	Mechanism of translational recoding in eukaryotes	NIH	$1,553,941.00
1310-23P	Petrov, Alexey	Mechanisms of translational recoding in eukaryotes	NIH	$1,755,234.81
0708-23	Range, Ryan	Genomic Mechanisms Controlling the Slow Development Of Antarctic Urchin Sterechinus Neumayeri	NSF	$374,112.00
1563-23P	Rashotte, Aaron	Finding novel mechanisms of cytokinin delaying leaf senescence	USDA	$650,000.00
1389-23P	Schotz, Al	Status assessment for swamp buckthorn (Sideroxylon thornei) in Alabama – Phase 2	ADCNR	$20,546.00
ANP	Schotz, Al	Habitat suitability modeling and site verification for the Tennessee yellow-eyed grass (Xyris tennesseensis) in Alabama	ADCNR	$25,746.00

Biological Sciences Submitted Proposals FY23

Proposal ID	PI/COPI	Title	Sponsor	Amount Requested
1608-23P	Schotz, Al	Habitat suitability modeling and site verification for the ravine sedge (Carex impressinervia) in Alabama	ADCNR	$25,000.00
1600-23P	Schotz, Al	Status assessment for small-flowered meadowbeauty (Rhexia parviflora) in Alabama	ADCNR	$25,000.00
0201-23P	Schwartz, Tonia	Support and expand captive breeding program, reintroduction to create new populations, and population augmentation for the Louisiana pinesnake.	U.S. Fish and Wildlife Service	$220,289.77
1024-23P	Schwartz, Tonia	Monitoring of gopher tortoises in an experimental population consolidation at Geneva Wildlife Management Area	Eckerd College	$20,943.00
0963-23P	Smith, Michael	Using novel tools to explore how honey bee nest organization can improve colony management	FFAR	$449,152.05
1496-23P	Smith, Michael	Honeybee-inspired architectural solutions for irregular hexagonal arrays	Air Force Office of Scientific Research	$449,871.21
1496-23P	Smith, Michael	Collective Construction in Honeybees: Process, Consistency, Repair	Air Force Office of Scientific Research	$449,949.38
0111-23P	Upton, Jason	Role of Deubiquitinases in Cytomegalovirus Pathogenesis	NIH	$450,591.51
1087-23P	Upton, Jason	Murine Cytomegalovirus-Induced Cell Death in Immunotherapy	CUNY	$1,159,666.41
1321-23P	Warner, Daniel	Determining drivers of geographic variation in developmental plasticity in the green anole	American Society of Ichthyologists and Herpetologists	$1,000.00
0159-23P	Wolak, Matthew	EPSCoR Research Response Research (R3): B-006: Adaptive evolution to regolith in increased radiation environments	UAH-EPSCor R3	$80,000.00
1155-23P	Wolak, Matthew	Development and Implementation of Remote Sensing Technologies to Assess the Status and Resiliency of the Salt Marsh Ecosystem in the Northern Gulf of Mexico	UAB	$56,000.07
TOTAL PROPOSALS:	**76**		**TOTAL AMOUNT REQUESTED:**	**$29,954,496.28**

Chemistry Extramural Grants with New Dollars received FY23

Proposal ID	PI/COPI	Title	Sponsor	Amount	Flow
1640-23	Chen, Ming	Asymmetric synthesis via organoboron compounds	DHHS-PHS-NIH-NIGMS-National Institute of General Medical Sciences	$374,829.00	FEDERAL
0281-23	Duin, Eduardus	Understanding nitrogenase maturation and activity in methanogens	University of Arkansas	$36,028.00	UNIVERSITY-DOE FLOW
1690-23	Duin, Eduardus	Structure and function of the methyl-coenzyme M reductase activation complex	DOE	$109,101.00	FEDERAL
2148-22	Easley, Christopher	Optimizing initial odor training for detection canines	U.S. Dept. of Homeland Security - Science and Technology	$33,794.76	FEDERAL
1476-23	Easley, Christopher	Unmasking mechanisms of lipolytic dynamics in adipose tissue using high-resolution microfluidic sampling	DHHS-PHS-NIH-NIDDK-National Inst for Diabetes, Digestive & Kidney Diseases	$401,443.20	FEDERAL
1158-23	Grieco, Christopher	2D vibrational correlation spectroscopy of mixed ionic-electronic conductors	Spectroscopy Society of Pittsburgh	$30,000.00	OTHER
2148-22	Hamid, Ahmed	Optimizing initial odor training for detection canines	U.S. Dept. of Homeland Security - Science and Technology	$33,794.76	FEDERAL
1511-23	Hamid, Ahmed	Development of a portable ion mobility spectrometer for efficient diagnosis of various diseases	DHHS-PHS-NIH-NIGMS-National Institute of General Medical Sciences	$658,974.00	FEDERAL
1385-23	Harshman, Jordan	CAREER: Uncovering faculty beliefs and values to define a model of doctoral education in chemistry	NSF	$181,540.00	FEDERAL
1890-22	Harshman, Jordan	Systemic Approach to Graduate Writing Instruction & Intervention	NSF	$39,818.00	FEDERAL
1315-23	Karimov, Rashad	Synthesis of partially saturated nitrogen heterocycles through stereo- and regioselective dearomatization of heteroarenes	DHHS-PHS-NIH-NIGMS-National Institute of General Medical Sciences	$374,061.00	FEDERAL
1133-23	Karimov, Rashad	NSF Graduate Research Fellows Program (GRFP) - Nathan O'Hare	NSF	$40,499.35	FEDERAL

Chemistry Extramural Grants with New Dollars received FY23

Proposal ID	PI/COPI	Title	Sponsor	Amount	Flow
1307-23A	Mills, German	Electrically conductive nanoparticle additives for greases used in electric vehicles and other applications	National Lubricating Grease Institute (NLGI)	$5,751.00	OTHER
0194-23	Ohno, Paul	Potential impacts of emerging building and urban envelopes on air quality	Schmidt Science Fellows	$5,000.00	FOREIGN OTHER
1000-23	Patkowski, Konrad	Production of excited rovibrational levels of OH for analysis of infrared observations of young stellar objects	University of Georgia	$34,500.00	UNIVERSITY-NASA FLOW
			TOTAL:	**$2,359,134.07**	

Chemistry Active Awards FY23

PI/COPI	Sponsor	Title	Start Date	End Date
Ahmed Hamid	NIH	DVLPT OF A PORTABLE ION MOBILITY SPECTROMETER FOR EFFIENENT DIAGNOSIS OF VARIOUS DISEASES	9/22/2022	7/31/2024
Bradley Merner	NSF	NEW STRATEGIES &TOOLS FOR SYNTHSIS OF CARBON NANOTUBES	5/1/2017	3/31/2023
Byron Farnum	NSF	MULTI-ELECTRON NICKEL REDOX CYCLES FOR SOLAR ENERGY CONVERSION &STORAGE	7/1/2020	6/30/2025
Christian Goldsmith	NSF	RATIOMETRIC SENSORS FOR H2O2 WITH 19F & 1H MRI OUTPUTS &FUNCTIONAL MIMICS OF SUPEROXIDE DISMUTASE WITH NON-EMZYMATIC METALS	8/1/2020	7/31/2024
Christopher Easley	NIH	NUCLEIC ACID NANOSTRUCTURE BUILT THRU ON-ELECTRODE LIGATION FOR ELECTROCHEMICAL DETECTION OF PROTEINS, PEPTIDES &SMALL MOLECULES	9/18/2020	7/31/2024
Christopher Easley/Robert Judd	NIH	UNMASKING MECHANISMS OF LIPOLYTIC DYNAMICS IN ADIPOSE TISSUE USING HIGH-RESOLUTION MICROFLUIDIC SAMPLING	7/1/2021	6/30/2024
Christopher Grieco	Spectroscopy Society of Pittsburgh	VIBRATIONAL 2D CORRELATION SPECTROSCOPY OF MIXED IONIC-ELECTRONIC CONDUCTORS	5/1/2023	5/1/2024
Eduardus Duin	US Department of Energy	RECOMBINANT METHYL-COENZYME M REDUCTASE IN THE METHANOGENIC ARCHAEON METHANOCOCCUS MARIPALUDIS FOR EXAMINATION OF ACTIVATION &ROLE OF POST-TRANSLATIONAL MODIFICATIONS	9/1/2017	8/31/2024
Eduardus Duin	University of Arkansas	UNDERSTANDING NITROGENASE MATURATION & ACTIVITY IN METHANOGENS	8/15/2018	8/14/2024
Eduardus Duin	Virginia Polytechnic Institute	MECHANISTIC INVESTIGATION OF RADICAL SAM METHYLASES INVOLVED IN TETRAHYDROMETHANOPTERIN BIOSYNTHESIS	7/1/2021	5/30/2024
Evangelos Miliordos	NSF	STATE OF THE ART QUANTUM CALCULATIONS ON A NOVEL CLASS OF SUPER-ATOMS	9/1/2020	8/31/2025
Christopher Easley/ Ahmed Hamid	US Department of Homeland Security	OPTIMIZING INITIAL ODOR TRAINING FOR DETECTION CANINES-OPTION PERIOD 1 TASK 3.3-DEVELOP &TESTING TRAINING AIDS FOR EXISTING &EMERGING THREATS TO ENABLE &BROADEN DETECTION CANINE CAPABILITIES	1/11/2023	1/10/2024
Christopher Easley/ Ahmed Hamid	US Department of Homeland Security	OPTIMIZING INITIAL ODOR TRAINING FOR DETECTION CANINES-OPTION PERIOD 1 TASK 3.2-ODOR PROCESSING RESCH TO IMPROVE TRAINING EFFICIENCY &SUCCESS EXPAND ALL-THREATS DETECTION &OPERATIONAL	1/11/2023	1/10/2024
Christopher Easley/ Ahmed Hamid	US Department of Homeland Security	OPTIMIZING INITIAL ODOR TRAINING FOR DETECTION CANINES-OPTION PERIOD 1 TASK 3.1-DEVELOP RECOMMENDATIONS FOR BEST ODOR TRAINING METHODS	1/11/2023	1/10/2024

Chemistry Active Awards FY23

PI/COPI	Sponsor	Title	Start Date	End Date
Christopher Easley/ Ahmed Hamid	US Department of Homeland Security	DETECTION CANINE APPLIED R&D-BASE PERIOD TASK 3.3-DEVELOP &TEST TRAINING AIDS FOR EXISTING &EMERGING THREATS TO ENABLE &BROADEN DETECTION CANINE CAPABILITIES	1/11/2022	1/10/2023
Christopher Easley/ Ahmed Hamid	US Department of Homeland Security	DETECTION CANINE APPLIED R&D-BASE PERIOD TASK 3.1-DEVELOP RECOMMENDATIONS FOR BEST ODOR TRAINING METHODS	1/11/2022	1/10/2023
German Mills	National Lubricating Grease Institute (NLGI)	ELECTRICALLY CONDUCTIVE NANOPARTICLE ADDITIVES FOR GREASES USED IN ELECTRIC VEHICLES &OTHER APPLICATIONS	8/31/2021	12/31/2022
Jordan Harshman	NSF	CAREER: UNCOVERING FACULTY BELIEFS AND VALUES TO DEFINE A MODEL OF DOCTORAL EDUCATION IN CHEMISTRY	6/1/2022	5/31/2027
Jordan Harshman/Russel Mailen	NSF	SYSTEMIC APPROACH TO GRADUATE WRITING INSTRUCTION &INTERVENTION	10/1/2022	9/30/2025
Jordan Harshman	NSF	BUILDING ASSESSMENT CAPACITY IN CHEMISTRY ED-THE CHEMISTRY INSTRUMENT REVIEW & ASSESSMENT LIBRARY (CHIRAL) PROJ	10/1/2019	6/30/2024
Konrad Patkowski	University of Georgia	PRODUCTION OF EXCITED ROVIBRATIONAL LEVELS OF OH FOR ANALYSIS OF INFRARED OBSERVATIONS OF YOUNG STELLAR OBJECTS	9/1/2021	8/31/2024
Konrad Patkowski	NSF	NATL SCI FDN/NEW EXTENSIONS TO SYMMETRY-ADAPTED PERTURBATION THEORY	7/1/2020	6/30/2024
Ming Chen	NSF	ENANTIOSELECTIVE SYNTHESES OF ORGANOBORON COMPOUNDS VIA TRANSITION-METAL CATALYSIS	9/1/2021	8/31/2026
Ming Chen	National Institutes of Health	ASYMMETRIC SYNTHESIS VIA ORGANOBORON COMPOUNDS	7/1/2022	6/30/2024
Monika Raj	NSF	CAREER: SECONDARY AMINE SELECTIVE PETASIS BIOCONJUGATION	7/1/2018	6/30/2023
Paul Ohno	Rhodes Science Fellows	POTENTIAL IMPACTS OF EMERGING BUILDING &URBAN ENVELOPES ON AIR QUALITY	12/1/2022	12/31/2023
Phani Pokkuluri	James Madison University	MOLECULAR MECHANISMS OF SHORT-RANGE ELECTRON TRANSFER IN METALLOPROTEINS	8/1/2022	6/30/2027

Chemistry Active Awards FY23

PI/COPI	Sponsor	Title	Start Date	End Date
Rashad Karimov	NIH	SYNTHESIS OF PARTIALLY SATURATED NITROGEN HETEROCYCLES THRU STEREO- AND REGIOSELECTIVE DEAROMATIZATION OF HETEROARENES	8/15/2022	6/30/2024
Rashad Karimov	NSF	GRADUATE RESCH FLLWSHP PROG FOR NATHAN O'HARE	6/1/2022	5/31/2024
Steven Mansoorabadi	DOE	MECHANISTIC STUDIES OF A PRIMITIVE HOMOLOG OF NITROGENASE INVOLVED IN COENZYME F430 BIOSYNTHESIS	9/1/2022	8/31/2024
Steven Mansoorabadi	Exxonmobile	METHANE PRODUCTION &OXIDATION BY RECOMBINANT METHYL-COENZYME M REDUCTASE	9/15/2019	12/31/2023
Wei Zhan	NSF	NSF-CHE-2108243/NATL SCI FDN/JANUS LIPOSOMES IN MOTION	8/15/2021	7/31/2024

Chemistry Submitted Proposals FY23

Proposal ID	PI/COPI	Title	Sponsor	Amount Requested
1482-22P	Banjeree, Rahul	Reactivity and regulation in non-heme diiron enzymes	NIH	$1,813,394.00
0737-23P	Boersma, Melissa	Utilization of Enhanced Solid Phase Extraction to Improve Laboratory Preparation and Measurement of PFAS in Understudied Media Types	DOD	$249,999.00
0379-23P	Duin, Eduardus	Working title: Activation of Mcr	DOE	$334,883.66
0122-23P	Duin, Eduardus	Helium Recovery Equipment: Chemistry and Biochemistry at Auburn University	NSF	$191,166.00
0024-23P	Duin, Eduardus	Targeting extracellular structures of methanogens with avian-derived polyclonal antibodies	UGA	$31,771.00
1298-23P	Duin, Eduardus	Development of next-generation feed additives targeting methanogenesis for immediate use in sustainable livestock systems	University of Florida	$58,900.97
0416-23P	Farnum, Byron	RII Track-2 FEC: The ACCESS - network: Accelerating Climate Critical Engineering and Science Solutions	NSF Epcsor	$1,415,228.86
0823-23P	Farnum, Byron	Molecular and Material Approaches to Electrocatalysis of the Oxygen Reduction Reaction using First-Row Transition Metals	DOE Epscor	$2,982,127.91
1654-23P	Farnum, Byron	Metamaterial Particles for Orbit Environment Remediation	NASA	$175,000.00
1596-23P	Goldsmith, Christian	Development and Mechanistic Characterization of High-Activity Catalase Mimics	NSF	$525,177.00
0681-23P	Grieco, Christopher	Impact of aggregation on the electronic and photochemical properties of asphaltenes	ACS-PRF	$110,000.00
0562-23P	Grieco, Christopher	2D Vibrational Correlation Spectroscopy of Mixed Ionic-Electronic Conductors	Spectroscopy Society of Pittsburgh	$30,000.00
1386-23P	Hill, Ethan	CAREER: Non-Trigonal Phosphorus Ligands for Metal-Ligand Cooperative Chemistry with First-Row Transition Metal Centers	NSF	$956,351.00
0659-23P	Hill, Ethan	Metal-Ligand Cooperativity with Phosphorus-Based Active Ligands Bound to Co(I) for the Activation of Carbon Dioxide	ACS	$110,000.00

Chemistry Submitted Proposals FY23

Proposal ID	PI/COPI	Title	Sponsor	Amount Requested
0442-23P	Mansoorabadi, Steven	Mechanistic Studies of a Primitive Homolog of Nitrogenase Involved in Coenzyme F430 Biosynthesis	DOE	$806,379.22
1681-23P	Miliordos, Evangelos	High level electronic structure calculations on f-block metal complexes with diffuse electrons for redox catalysis and quantum information hardware applications	DOE	$345,861.57
0392-23P	Mills, German	Electrically Conductive Nanoparticle Additives for Greases Used in Electric Vehicles and Other Applications	National Lubricating Grease Institute	$5,751.00
1163-23P	Ohno, Paul	Aerosol Particle Collectors for Microsensor Platforms	DOD-Army	$85,143.70
0438-23P	Pokkuluri, Phani	Brain birth defects associated with dysregulated endothelial and radial glial cell metabolism	NIH	$69,869.11
TOTAL PROPOSALS:	**19**		**TOTAL AMOUNT REQUESTED:**	**$10,297,004.00**

Math & Stats Extramural Grants with New Dollars received FY23

Proposal ID	PI/COPI	Title	Sponsor	Amount	Flow
0035-23P	Brown, Michael	Multigraded commutative algebra and the geometry of syzygies	NSF	$220,000.00	FEDERAL
1390-23	Cao, Yanzhao	Reliable and efficient machine learning for leadership facility scientific data analytics	DOE	$100,000.00	FEDERAL
1258-23P	Carpenter, David	Quantification of Confidence Level of FY23	Parsons Govt Services (DOD Flow)	$443,284.90	DOD-FEDERAL
0578-23P	Ceyhan, Elvan	ATD: Stochastic obstacle scene problem with adversarial agents	NSF	$300,000.00	FEDERAL
	Ceyhan, Elvan	Adversarial Risk Analysis for Optimal Obstacle Evasion	DOD- Navy	$62,265	FEDERAL
1523-22P	Chen, Le; Xia, Panqiu	Studies of the stochastic partial differential equations	NSF	$179,999.00	FEDERAL
1905-23	Hoang, Thi	CAREER: Efficient and accurate local time-stepping algorithms for multiscale multiphysics systems	NSF	$90,378.00	FEDERAL
0054-23P	Huang, Hang	Representation theory meets computational algebra and complexity theory	NSF	$107,961.00	FEDERAL
1152-23	Lanius, Melinda	Inclusive Course Design for Enhancing Active Learning in STEM	NSF	$90,012.97	FEDERAL
2012-22	Molinari, Roberto	Simulation-Based Inference For Differential Privacy	Purdue (NSF Flow)	$97,118.00	NSF FLOW-FEDERAL
1163-23	Nane, Erkan	Groundwater 2070 in Baldwin County AL Under a changing climate	University of Alabama	$16,666.91	US Dept of Treasury-FEDERAL
1306-22P	Sukhtaiev, Selim	Conference: Joint Alabama-FL Conference on Differential Equations, Dynamical Systems, and Applications	NSF	$26,010.00	FEDERAL
1696-23	Sukhtaiev, Selim	Index theorems in analysis, mathematical physics, and spectral theory	Simons Foundation	$42,000.00	FOUNDATION

Math & Stats Extramural Grants with New Dollars received FY23

Proposal ID	PI/COPI	Title	Sponsor	Amount	Flow
1898-23	Zheng, Jingyi	MRI: Track 1 Acquisition of an Xray Diffraction Contrast Tomography Instrument Enabling Research& Education Towards Establishing Microstructure-Property Relationships	NSF	$105,672.30	FEDERAL
2149-22	Zheng, Jingyi	Optimizing Initial Odor Training for Detection Canines	DHS	$3,315.80	FEDERAL
0453-23P	Zhong, Yimin	Theory and computation for radiative transport and related applications	Simons Foundation	$42,000.00	FOUNDATION
1597-23	Zhong, Yimin	Adaptive hybrid method for radiative transfer and related applications	NSF	$209,173.00	FEDERAL
			TOTAL:	**$2,135,856.88**	

Mathematics & Statistics Active Awards FY23

PI/COPI	Sponsor	Title	Start Date	End Date
Asheber Abebe	Simons Foundation, Inc.	STATISTICAL LEARNING IN NEXT GEN OF FUNCTIONAL DATA ANALYSIS	9/1/2021	8/31/2026
David Carpenter	SPARTA, Inc., A Parsons Company	QUNTIFICATION OF CONFIDENCE LEVEL OF FY23	9/7/2023	9/6/2024
David Carpenter	SPARTA, Inc., A Parsons Company	QUNTIFICATION OF CONFIDENCE LEVEL OF FY23	9/7/2023	9/6/2024
David Carpenter	SPARTA, Inc., A Parsons Company	QUANTIFICATION OF CONFIDENCE LEVEL	9/26/2022	9/6/2023
Elvan Ceyhan	National Science Foundation	STOCHASTIC OBSTACLE SCENE PROBLEM WITH ADVERSARIAL AGENTS	9/1/2023	8/31/2026
Elvan Ceyhan	Simons Foundation, Inc.	GRAPH THEORETIC LEARNING &SPATIAL METHODS	9/1/2021	8/31/2026
Elvan Ceyhan	Office of Naval Research	ADVERSARIAL RISK ANALYSIS FOR OPTIMAL OBSTACLE EVASION	7/1/2022	6/30/2025
Erkan Nane	Simons Foundation, Inc.	SPACE-TIME FRACTIONAL DYNAMICS	9/1/2021	8/31/2026
Erkan Nane	University of Alabama at Tuscaloosa	GROUNDWATER 2070 IN BALDWIN CTY AL UNDER A CHANGING CLIMATE &THREATENED BY SEAWATER INSTRUSION: FROM SUSTAINABILITY TO VULNERABILITY	1/1/2022	8/31/2023
Hang Huang	NSF	REPRESENTATION THEORY MEETS COMPUTATIONAL ALGEBRA &COMPLEXITY THEROY	7/1/2023	6/30/2026
Hannah Alpert	Simons Foundation, Inc.	DISK CONFIGURATION SPACES &MACROSCOPIC SCALAR CURVATURE	9/1/2022	8/31/2027
Hans Werner Van Wyk/Yanzhao Cao/ Junshan Lin/Thi Thao Phuong Hoang	NSF	10TH ANNUAL GRAD STUDENT MINI-CONFERENCE IN COMPUTATIONAL MATHEMATICS-PARTICIPANT SUPPORT COSTS ONLY	1/1/2020	12/31/2022
Henry Schenck	NSF	COMPUTATIONAL ALGEBRA & APPLICATIONS	3/1/2021	2/28/2025
Huajun Huang/Wayne Martin/Hans Werner Van Wyk	NSF	DEVELOPING, RECRUITING &EMPOWERING ALA MATHEMATICS TEACHERS	4/1/2022	3/31/2028

Mathematics & Statistics Active Awards FY23

PI/COPI	Sponsor	Title	Start Date	End Date
Jessica McDonald	Simons Foundation, Inc.	COLOURING &STRUCTURE IN GRAPHS	9/1/2021	8/31/2026
Jingyi Zheng	US Department of Homeland Security	OPTIMIZING INITIAL ODOR TRAINING FOR DETECTION CANINES-OPTION PERIOD 1 TASK 7.2-OPERATIONAL CONDITION IMPACTS	1/11/2023	1/10/2024
Jingyi Zheng	US Department of Homeland Security	OPTIMIZING INITIAL ODOR TRAINING FOR DETECTION CANINES-OPTION PERIOD 1 TASK 7.1-UNDERSTAND CAUSES OF EARLY RETIREMENT	1/11/2023	1/10/2024
Jingyi Zheng	US Department of Homeland Security	OPTIMIZING INITIAL ODOR TRAINING FOR DETECTION CANINES-OPTION PERIOD 1 TASK 6-CONDUCT OPERATIONAL CANINE TEAM PROFICIENCY ASSESSMENTS	1/11/2023	1/10/2024
Jingyi Zheng	US Department of Homeland Security	OPTIMIZING INITIAL ODOR TRAINING FOR DETECTION CANINES-OPTION PERIOD 1 TASK 5-DEVELOP OPTIMAL HANDLER CHARACTERISTICS &TRAINING APPROACHES	1/11/2023	1/10/2024
Jingyi Zheng	NSF	TOWARDS A MANIFOLD-BASED FRAMEWORK FOR BRAIN-COMPUTER INTERFACE	5/1/2022	4/30/2025
Jingyi Zheng/Nedret Billor	University of Alabama at Birmingham	CTR FOR CLINICAL &TRANSLATIONAL SCIENCE	5/1/2023	4/30/2024
Jingyi Zheng	US Department of Homeland Security	OPTIMIZING INITIAL ODOR TRAINING FOR DETECTION CANINES-OPTION PERIOD 1 TASK 4-OPTIMIZE METHODS OF DETECTION CANINE EVALUATIONS &SELECTION BY OPERATIONAL END-USERS	1/11/2023	1/10/2024
Jingyi Zheng	US Department of Homeland Security	OPTIMIZING INITIAL ODOR TRAINING FOR DETECTION CANINES-OPTION PERIOD 1 TASK 3.3-DEVELOP &TESTING TRAINING AIDS FOR EXISTING &EMERGING THREATS TO ENABLE &BROADEN DETECTION CANINE CAPABILITIES	1/11/2023	1/10/2024
Jingyi Zheng	US Department of Homeland Security	OPTIMIZING INITIAL ODOR TRAINING FOR DETECTION CANINES-OPTION PERIOD 1 TASK 3.2-ODOR PROCESSING RESCH TO IMPROVE TRAINING EFFICIENCY &SUCCESS EXPAND ALL-THREATS DETECTION &OPERATIONAL	1/11/2023	1/10/2024
Jingyi Zheng	US Department of Homeland Security	OPTIMIZING INITIAL ODOR TRAINING FOR DETECTION CANINES-OPTION PERIOD 1 TASK 3.1-DEVELOP RECOMMENDATIONS FOR BEST ODOR TRAINING METHODS	1/11/2023	1/10/2024
Jingyi Zheng	US Department of Homeland Security	OPTIMIZING INITIAL ODOR TRAINING FOR DETECTION CANINES-OPTION PERIOD 1 TASK 2.2-CORRELATE GENETICS, HERITABILITY, GENOMICS WITH PHENOTYPE TO DISCOVER OPTIMAL BREEDING OUTCOMES	1/11/2023	1/10/2024
Jingyi Zheng	US Department of Homeland Security	OPTIMIZING INITIAL ODOR TRAINING FOR DETECTION CANINES-OPTION PERIOD 1 TASK 2.1-OPTIMIZE EARLY DVLMT &TRAINING PRACTICES	1/11/2023	1/10/2024
Jingyi Zheng	US Department of Homeland Security	DETECTION CANINE APPLIED R&D-BASE PERIOD TASK 7.1-UNDERSTAND CAUSES OF EARLY RETIREMENT	1/11/2022	1/10/2023

Mathematics & Statistics Active Awards FY23

PI/COPI	Sponsor	Title	Start Date	End Date
Jingyi Zheng	US Department of Homeland Security	DETECTION CANINE APPLIED R&D-BASE PERIOD TASK 6-CONDUCT OPERATIONAL CANINE TEAM PROFICIENCY ASSESSMENTS	1/11/2022	1/10/2023
Jingyi Zheng	US Department of Homeland Security	DETECTION CANINE APPLIED R&D-BASE PERIOD TASK 5-DEVELOP OPTIMAL HANDLER CHARACTERISTICS &TRAINING APPROACHES	1/11/2022	1/10/2023
Jingyi Zheng	US Department of Homeland Security	DETECTION CANINE APPLIED R&D-BASE PERIOD TASK 4-OPTIMIZE METHODS OF DETECTION CANINE EVALUATIONS &SELECTION BY OPERATIONAL END-USERS	1/11/2022	1/10/2023
Jingyi Zheng	US Department of Homeland Security	DETECTION CANINE APPLIED R&D-BASE PERIOD TASK 3.3-DEVELOP &TEST TRAINING AIDS FOR EXISTING &EMERGING THREATS TO ENABLE &BROADEN DETECTION CANINE CAPABILITIES	1/11/2022	1/10/2023
Jingyi Zheng	US Department of Homeland Security	DETECTION CANINE APPLIED R&D-BASE PERIOD TASK 3.1-DEVELOP RECOMMENDATIONS FOR BEST ODOR TRAINING METHODS	1/11/2022	1/10/2023
Jingyi Zheng	US Department of Homeland Security	DETECTION CANINE APPLIED R&D-BASE PERIOD TASK 2.1-OPTIMIZE EARLY DVLMT &TRAINING PRACTICES	1/11/2022	1/10/2023
Junshan Lin	NSF	IMAGING &SENSING VIA PLASMONIC NANOHOLE RESONANCES	9/1/2020	6/30/2024
Le Chen	Simons Foundation, Inc.	ASYMPTOTICS FOR STOCHASTIC PARTIAL DIFFERENTIAL EQUATIONS	9/1/2022	8/31/2026
Le Chen/Panqiu Xia	NSF	STUDIES OF THE STOCHASTIC PARTIAL DIFFERENTIAL EQUATIONS	8/1/2023	7/31/2026
Luke Oeding	EMBASSY OF FRANCE	MACHINE LEARNING, INVARIANTS OF TENSORS &QUANTUM INFORMATION	9/1/2020	8/31/2024
Melinda Lanius	National Science Foundation	INCLUSIVE COURSE DESIGN FOR ENHANCING ACTIVE LEARNING IN STEM	5/15/2023	4/30/2026
Melinda Lanius	NSF	PROMOTING SUCCESS IN MATHEMATICAL ENRICHMENT THRU GRADUATE TEACHING ASSISTANT &UNDERGRAD PRE-SERVICE TEACHER TRAINING	5/3/2022	2/28/2025
Melinda Lanius/Nedret Billor/Lora Merchant/Overtount Jenda	NSF	PROMOTING SUCCESS IN UNDERGRADUATE MATH THRU GRADUATE TEACHING ASSISTANT TRAINING	10/1/2018	9/30/2024

Mathematics & Statistics Active Awards FY23

PI/COPI	Sponsor	Title	Start Date	End Date
Michael Brown	NSF	MULTIGRADED COMMULATIVE ALGEBRA & THE GEOMTRY OF SYZGIES	9/1/2023	8/31/2026
Roberto Molinari	The Trustees Of Purdue University	SIMULATION-BASED INFERENCE FOR DIFFERENTIAL PRIVACY	8/15/2022	7/31/2025
Selim Sukhtaiev	Simons Foundation, Inc.	INDEX THEOREMS IN ANALYSIS, MATHEMATICAL PHYSICS &SPECIAL THEORY	9/1/2023	8/31/2028
Selim Sukhtaiev	NSF	CONFERENCE:JOINT ALABAMA-FLORIDA CONFERENCE ON DIFFERENTIAL EQUATIONS, DYNAMICAL SYSTEMS &APPLICATIONS	4/1/2023	3/31/2024
Thi Thao Phuong Hoang	NSF	EFFICIENT &ACCURATE LOCAL TIME-STEPPING ALGORITHMS FOR MULTISCALE MULTIPHYSICS SYSTEMS	9/1/2021	8/31/2026
Thi Thao Phuong Hoang	NSF	GLOBAL-IN-TIME DOMAIN DECOMPOSITION METHODS FOR EVOLUTION PARTIAL DIFFERENTIAL EQUATIONS WITH APPLICATIONS TO FLOW &TRANSPORT IN FRACTURED POROUS MEDIA	8/1/2019	7/31/2023
Xiaoying Han	Simons Foundation, Inc.	APPLIED DYNAMICAL SYSTEMS IN BIOLOGICAL, COMPUTATIONAL &ENGINEERING MODELS	9/1/2022	8/31/2027
Yanzhao Cao	US Department of Energy	RELIABLE &EFFICIENT MACHINE LEARNING FOR LEADERSHIP FACILITY SCIENTIFIC DATA ANALYTICS	9/1/2021	8/31/2024
Yimin Zhong	Simons Foundation, Inc.	THEORY & COMPUTATION FOR RADIATIVE TRANSPORT &RELATED APPLICATIONS	9/1/2023	8/31/2028
Yimin Zhong	NSF	ADAPTIVE HYBRID METHOD FOR RADIATIVE TRANSFER & RELATED APPLICATIONS	9/1/2023	8/31/2026

Math & Stats Submitted Proposals FY23

Proposal ID	PI/COPI	Title	Sponsor	Amount Requested
0115-23P	Alpert, Hannah	Configuration spaces of hard squares in a rectangle	NSF	$465,200.00
1434-23P	Briggs, Joseph	CAREER: Isoperimetry in Symmetric Graphs and Beyond	NSF	$692,376.00
1817-23P	Briggs, Joseph	Exact Isoperimetry in Symmetric Graphs	NSF	$427,630.00
0451-23P	Brown, Michael	Multigraded commutative algebra and the geometry of syzygies	Simons Foundation	$42,000.00
0035-23P	Brown, Michael	Multigraded commutative algebra and the geometry of syzygies	NSF	$251,416.16
1408-23P	Brown, Michael	CAREER: Multigraded commutative algebra and the geometry of syzygies	NSF	$400,002.00
0513-23P	Cao, Guanqun	Collaborative Research: IMR: MM-1A: Functional Data Analysis-aided Learning Methods for Robust Wireless Network Measurements and Applications	NSF	$399,998.00
0283-23P	Cao, Guanqun	Modern Machine Learning for Functional Data Analysis	NSF	$229,339.00
0249-23P	Cao, Yanzhao	Physics based Algorithms for Nonlinear Poroelasticity and Electroporoelasticity	NSF	$159,925.00
1487-23P	Cao, Yanzhao	RTG: Interdisciplinary data science at Auburn University and Tuskegee University	NSF	
1475-23P	Cao, Yanzhao	Developing and Validating a General Procedure to Detect Cheating on Writing Assignments	Spencer Foundation	$49,971.00
1157-23P	Carpenter, Mark	Combined Detailed Threat Characterizations and Rapid Trajectory Optimization Algorithms for Warfighter Decision Making	TAMU Engineering Experiment Station	$1,500,000.00
1258-23P	Carpenter, Mark	Quantification of Confidence Level of FY23	Parsons Govt Services	$300,751.00

Math & Stats Submitted Proposals FY23

Proposal ID	PI/COPI	Title	Sponsor	Amount Requested
0578-23P	Ceyhan, Elvan	Stochastic Obstacle Scene Problem with Adversarial Agents	NSF	$407,546.17
0318-23P	Ceyhan, Elvan	Statistical Machine Learning with Random Geometric Graphs	NSF	$477,703.00
0030-23P	Feng, Ziqin	Tukey Order and (Free) Topological Algebra	NSF	$195,556.00
0054-23P	Huang, Hang	Representation Theory Meets Computational Algebra and Complexity Theory	NSF	$107,961.00
0377-23P	Jenda, Overtoun	Racial Equality: Strengthening Pathways and Research Knowledge (SPARK) in STEM in Greater Alabama Black Belt Region	NSF	$5,000,000.00
0417-23P	Lanius, Melinda	Building A Calculus Active Learning Environment Equally Beneficial Across A Diverse Student Population	NSF	$399,445.00
0284-23P	Lanius, Melinda	Chisangalalo Cha Masamu: Exploring the Transformative Impact of a Study Abroad Experience in Southern Africa on Mathematics Teachers from Alabama's Black Belt	Spencer Foundation	$49,605.00
0935-23P	Lanius, Melinda	An interdisciplinary STEM education postdoctoral training program to bridge disciplinary knowledge and educational research in calculus	NSF	$1,241,570.00
1368-23P	Lanius, Melinda	Improving STEM Education Project Design with Professional development for Emerging Education Researchers	NSF	$54,694.00
0228-23P	Lin, Junshan	Collaborative Research: Asymptotic Analysis, Computational Optimization and Machine Learning for Topological Photonic Materials	NSF	$199,109.00
0859-23P	Lin, Junshan	CBMS Conference on Mathematical Methods for Novel Metamaterials	NSF	$38,100.00
0012-23P	Molinari, Roberto	Algorithmic Solutions for Multi-Model Interpretation and Diagnostics	NIH	$1,307,360.00
0452-23P	Oeding, Luke	Tensors in Quantum Information and Computer Vision	Simons Foundation	$42,000.00

Math & Stats Submitted Proposals FY23

Proposal ID	PI/COPI	Title	Sponsor	Amount Requested
1577-23P	Oeding, Luke	Workshop: Tensor Invariants in Geometry and Complexity Theory	NSF	$50,000.00
1713-23P	Schenck, Henry	Applied and Computational Algebraic Topology	Simons Foundation	$162,000.00
1605-23P	Shan, Songling	Graph Edge Decomposition and Graph Toughness	NSF	$79,227.00
0450-23P	Sukhtaiev, Selim	Index Theorems in Analysis, Mathematical Physics, and Spectral Theory	Simons Foundation	$42,000.00
	Sukhtaiev, Selim	Index Theorems for Quantum Graphs	Binational Science Foundation	$74,999.00
0196-23P	Sukhtaiev, Selim	Long-term dynamics of nonlinear evolution equations on networks	NSF	$194,334.00
1686-23P	Zhang, Yuming	Bayesian Computation Enhancement through Posterior Density Geometry Exploration	University of Southern California	$34,071.00
1811-23P	Zhang, Yuming	Propagation Dynamics and Free Boundaries of Parabolic Equations	Auburn University	$260,211.00
0586-23P	Zheng, Jingyi	MRI: Track 1 Acquisition of LabDCT An Xray Diffraction Contrast Tomography Instrument to Enable Fundamental and Applied Research and Education	NSF	$723,131.00
0943-23P	Zheng, Jingyi	Manifold-based Methods for Analyzing Functional Connectivity Matrix	UAB	$20,000.00
0944-23P	Zheng, Jingyi	Robust Functional Independent Component Analysis for Multivariate Functional Data- Center for Clinical and Translational Science	UAB	$20,000.00
0872-23P	Zheng, Jingyi	Assessing Imminent risk of LVEF Decline in PMR Patients by CMR	UAB	$983,027.00
1148-23P	Zheng, Jingyi	Training Next-generation Scholars to Use Artificial Intelligence for Climate-smart Agriculture	USDA	$238,500.00
1425-23P	Zheng, Jingyi	CAREER: Geometry Aware Analysis and Inference for Manifold-valued Data	NSF	$595,805.00

Math & Stats Submitted Proposals FY23

Proposal ID	PI/COPI	Title	Sponsor	Amount Requested
0453-23P	Zhong, Yimin	Theory and Computation for Radiative Transfer and Related Applications	Simons Foundation	$42,000.00
0245-23P	Zhong, Yimin	Adaptive Hybrid Method for Radiative Transfer and Related Applications	NSF	$219,920.00
TOTAL PROPOSALS:	**42**		**TOTAL AMOUNT REQUESTED:**	**$23,097,090.49**

Geosciences Extramural Grants with New Dollars received FY23 FY23

Proposal ID	PI/COPI	Title	Sponsor	Amount	Flow
1089-23P	Boston, Brian	U.S. Science Support program Office associated with the International Ocean Discovery Program (USSSP-IODP)	Columbia University (NSF Flow	$41,171.00	NSF- FEDERAL
1507-23P	Marzen, Luke	City of Auburn GIS fellowship 2023-2024 academic year	City of Auburn	$20,000.00	OTHER
2169-23	Marzen, Luke; Mitra, Chandana	Stateview Program Development & Operations for State of Alabama	Americaview (USGS flow)	$23,500.00	FEDERAL- USGS
1914-23	McNeal, Karen	Intergovernmental Personnel Act Assignment	NSF	$183,084.00	FEDERAL
0414-23P	Mitra, Chandana	NRT Us-Ireland Student Mobility PSC Only	NSF	$23,940.00	FEDERAL
1606-23	Mitra, Chandana	Towards conceptualization and predictability: A multi-scalar analysis of urban-influenced hydrometerological processes	University of Georgia (NASA Flow)	$32,505.00	NASA- FEDERAL
1901-22	Nelson, Jake	AL Water Resources Research Institute-Private Well Contamination Risk	USGS	$22,652.49	FEDERAL
0015-23	Ojeda, Ann	RII Track-2 FEC: IGM - A framework for harnessing big hydrological datasets for integrated groundwater management	University of Alabama	$7,616.25	NSF-FEDERAL
0155-23	Ojeda, Ann; Rogers, Stephanie; Frances O'Donnell	Harnessing Citizen Science to Understand Stressors on Groundwater Quality in the AL Gulf Coast	Dauphin Island Sea Lab	$315,804.00	US Dept of Treasury-FEDERAL
1734-23	Ojeda, Ann; Lee, Ming-Kuo; Bilenker, Laura	Sequestration of molybdenum through bioremediated groundwater	Electric Power Research	$170,763.00	OTHER
0414-22P	Rogers, Stephanie	3-Dimensional Nest Of The Honeybee: Organization, Development &Impact On Colony Function	NSF	$34,764.73	FEDERAL
0015-23	Rogers, Stephanie	RII Track-2 FEC: IGM - A framework for harnessing big hydrological datasets for integrated groundwater management	University of Alabama	$7,616.25	NSF-FEDERAL
1496-22P	Shepherd, Steph	Implementation Of UTeach Stem Techer Prep Prog At Au	AL Commission of Higher Education	$36,243.33	STATE OF ALABAMA

Geosciences Extramural Grants with New Dollars received FY23

Proposal ID	PI/COPI	Title	Sponsor	Amount	Flow
1152-23	Shepherd, Steph	Inclusive Course Design for Enhancing Active Learning in STEM	NSF	$509,250.03	FEDERAL
1440-23	Wolf, Lorraine	NSF Graduate Research Fellows Program- Akilah Alwan	NSF	$49,000.00	FEDERAL
			TOTAL:	**$1,477,910.08**	

Geosciences Submitted Proposals FY23

Proposal ID	PI/COPI	Title	Sponsor	Amount Requested
1089-23P	Boston, Brian	U.S. Science Support program Office associated with the International Ocean Discovery Program (USSSP-IODP)	Columbia University	$41,170.50
1058-23P	Boston, Brian	Collaborative research: Quantifying incoming plate hydration and role of fluids on megathrust properties in and around the Guerrero Gap, offshore Mexico	Columbia University	$94,078.02
0722-23P	Hames, Willis	New Directions: Characterization of Noble gases in potential onshore geological repositories for carbon capture and storage facilities in Alabama and Mississippi	ACS-PRF	$125,000.00
0473-23P	King, David	Marine impact craters as a planetary analogue site for the preservation of fossil life: Field studies and studies of drill core, Wetumpka impact crater in Alabama	Planetary Society	$49,994.60
0128-23P	King, David	A re-interpretation of the structure of Flynn Creek Impact Crater, Tennessee	NASA SSW	
0060-23P	King, David	Potential for subsurface complex impact structures as sites for carbon sequestration	ACS	$110,000.00
1043-23P	Malina, Natalia	LINKING DISSOLVED ORGANIC MATTER CHARACTERISTICS WITH ATRAZINE PHOTODEGRADATION MECHANISMS	International Humic Substances Society	$44,989.58
1266-23P	Marzen, Luke	“StateView Program Development and Operations for the State of Alabama”.	USGS	$25,500.00
1507-23P	Marzen, Luke	GIS Fellowship	City of Auburn	$20,000.00
0595-23P	McNeal, Karen	Hosting the SE Climate Adaptation Science Center	NC State	$318,547.00
0143-23P	McNeal, Karen	Development of a Measurement Framework for the integrated and Holistic Assessment of Resilience to Climate-Related Hazards	University of Connecticut	$571,568.00
1344-23P	McNeal, Karen	Subsurface Carbon Storage From Agricultural Residues	Louisiana State University	$459,519.43
1584-23P	McNeal, Karen	CAST-Cycle2: Developing a Diverse Research Workforce with Expertise in Hydrological Climate Events in the Upland Watersheds of the Northern Gulf of Mexico (Hydroclimate-AU)	USGS	$280,000.00

Geosciences Active Awards FY23

PI/COPI	Sponsor	Title	Start Date	End Date
Ann Ojeda/Stephanie Rogers	Dauphin Island Sea Lab	DAUPHIN ISLAND SEA LAB/US DEPT TREASURY-1 RCEGR010006-01-00/HARNESSING CITIZEN-SCIENCE TO UNDERSTAND STRESSORS ON GROUNDWATER QUALITY IN THE AL GULF COAST	10/1/2021	4/30/2025
Ann Ojeda/Ming-Kuo Lee/Laura Bilenker	Electric Power Research Institute Inc	SEQUESTRATION OF MOLYBDENUM THRU BIOREMEDIATED GROUNDWATER	8/22/2022	12/31/2024
Ann Ojeda	NSF	UPGRADE OF AN ISOTOPE RATION-MASS SPECTROMETER FOR COMPOUND-SPECIFIC ISOTOPE ANALYSIS IN ORGANIC BIOGEOCHEMICAL RESCH	7/1/2021	6/30/2024
Brian Boston	Columbia University	IODP EXPEDITION 389-HAWAIIAN DROWNED REEFS	9/1/2023	1/31/2025
Chandana Mitra	NSF	NRT US-IRELAND STUDENT MOBILITY PROG COSTS ONLY	9/1/2019	8/31/2025
Chandana Mitra/Michelle Worosz, Di Tian/Christopher Burton	NSF	ADDRESSING RESILIENCY TO CLIMATE-RELATED HAZARDS &DISASTERS THRU DATA-INFORMED DECISION MAKING	9/1/2019	8/31/2025
Chandana Mitra	University of Georgia	MULTI-SCALAR ANALYSIS OF URBAN-INFLUENCED HYDROMETEOROLOGICAL PROCESSES	7/2/2020	6/1/2024
Haibo Zou/David King	American Chemical Society	PROVENANCE BY PETROLOGY &AGE-DATING OF ZIRCONS	9/1/2017	8/31/2023
Jake Nelson	US Department of the Interior	AL WATER RESOURCES RESEARCH INST-PRIVATE WELL CONTAMINATION RISK MODEL	9/1/2022	8/31/2023
Karen McNeal	US Department of the Interior	DEVLOPING A DIVERSE RESEARCH WORKFORCE WITH EXPERTISE IN HYDROLOGICAL CLIMATE EVENTS IN THE UPLAND WATERSHEDS OF THE NOTHERN GULF OF MEXICO (HYDROCLIMATE-AU)	3/1/2022	2/28/2026
Karen McNeal	North Carolina State University	HOSTING THE SOUTHEAST CLIMATE ADAPTATION SCIENCE CENTER (SE CASC)	8/1/2023	7/31/2025
Karen McNeal	NSF	INTERGOVERNMENTAL PERSONNEL ACT ASSIGNMENT FOR K MCNEAL	3/13/2023	3/12/2025
Karen McNeal/Hanqin Tian/ Puneet Srivastava	North Carolina State University	HOSTING THE SE CLIMATE SCIENCE CTR-YEAR 5	8/1/2021	7/31/2024
Karen McNeal/Hanqin Tian	North Carolina State University	HOSTING THE SE CLIMATE SCIENCE CTR-YEAR 6	8/1/2022	7/31/2024

Geosciences Active Awards FY23

PI/COPI	Sponsor	Title	Start Date	End Date
Karen McNeal	North Carolina State University	EFFECTIVELY ADDRESSING NATURAL RESOURCE MGT NEEDS	4/1/2022	2/28/2024
Karen McNeal	North Carolina State University	DATA ANALYSIS & VISUALIZATION TO SUPPORT FWS SERVICE SPECIES STATUS ASSESSMENTS	10/1/2019	9/30/2023
Karen McNeal	NSF	GRADUATE RESCH FLLWSHP PROG FOR ELIJAH JOHNSON	9/1/2019	5/31/2023
Karen McNeal	NSF	GRADUATE RESCH FLLWSHP PROG FOR STEPHANIE COURTNEY	9/1/2019	12/31/2022
Laura Bilenker	NSF	CHARACTERIZING IRON DEPOSITS IN PUERTO RICO TO ELUCIDATE METAL TRANSPORT &MAGNETITE MINERALIZATION PROCESSES IN SKARN SYSTEMS	8/1/2022	7/31/2025
Lauren Beckingham	NSF	DEVELOPING A DIVERSE, FUTURE-ORIENTED WORKFORCE FOR RENEWABLE ENERGY INDUSTRIES	7/1/2021	6/30/2025
Lorraine Wolf	NSF	GRADUATE RESCH FLLWSHP PROG FOR AKILAH ALWAN	6/1/2020	5/31/2024
Luke Marzen	City of Auburn, Alabama	FELLOWSHIP FOR CITY OF AUBURN	10/1/2022	9/30/2023
Luke Marzen/Chandana Mitra	AmericaView, Inc.	STATEVIEW PROG DVLMT & OPERATIONS FOR STATE OF ALA	9/18/2022	9/17/2023
Philip Chaney	University of Alabama in Huntsville	RURAL EMPLOYMENT & THE NEED FOR AN ALA IRRIGATED ACREAGE SURVEY	1/15/2021	10/15/2022
Richard Vachula	Schoodic Institute at Acadia National Park	SECOND CENTURY STEWARDSHIP RESCH FELLOWSHIP	6/1/2022	12/31/2024
Stephanie Rogers	NSF	3-DIMENSIONAL NEST OF THE HONEY BEE: ORGANIZATION, DVLMNT &IMPACT ON COLONY FUNCTION	1/1/2023	12/31/2026
Stephanie Shepherd	NSF	INCLUSIVE COURSE DESIGN FOR ENHANCING ACTIVE LEARNING IN STEM	5/15/2023	4/30/2026
Stephanie Shepherd/Christine Schnittka	Alabama Commission of Higher Education	IMPLEMENTATION OF UTEACH STEM TECHER PREP PROG AT AU	1/1/2023	9/30/2024

Geosciences Submitted Proposals FY23

Proposal ID	PI/COPI	Title	Sponsor	Amount Requested
0690-23P	Mitra, Chandana	MCA: Heat Education and Adaptation Training (HEAT) Montgomery	NSF	$333,737.88
0414-23P	Mitra, Chandana	NRT US-Ireland Student Mobility Program	NSF	$23,940.00
0020-23P	Mitra, Chandana	LED light and influence on sustainable farming	USDA	$4,000,000.00
0350-23P	Nelson, Jake	Mapping Currents and Phytoplankton in a Shallow Estuary Using An Unmanned Aerial System	IRL Council and Indian River Lagoon National Estuary Program	$50,898.83
0195-23P	Nelson, Jake	Is Your Water Well? Impacts of Extreme Flooding on Health and Community Resilience for Private Well Owners in The Gulf Coast	National Academies of Science - Gulf Research Program	$1,477,026.86
0844-23P	Ojeda, Ann	R11 track-4 As-DOM and FTIRCMS	NSF	$275,395.00
0909-23P	Ojeda, Ann	NAS Fellowship	NAS	$76,000.00
0954-23P	Ojeda, Ann	Acquisition of Fourier Transform Infrared for Advanced Research of Microplastics	USDA-NIFA	$186,990.00
1090-23P	Rogers, Stephanie	Inequities in pollution exposure: examining the relationship between septic system prevalence and water contamination	Mississippi/Alabama Sea Grant Consortium	$199,376.28
1397-23P	Rogers, Stephanie	Technical Assistance, Education, and Training for Sustainable Wastewater Management in the Rural Black Belt of Alabama	USDA	$1,349,253.52
0189-23P	Vachula, Richard	Tundra fires on the Alaskan North Slope: Characterizing their pyrogeography and links with climate, vegetation, and lacustrine carbon burial	NSF	$977,769.51
0067-23P	Vachula, Richard	Collaborative Research: Resolving fire-climate relationships in the eastern United States	NSF	$506,650.25
0884-23P	Vachula, Richard	Paleoecological Constraints on fire driven aquatic-terrestrial connectivity in the southeastern United States	NSF	$603,283.00

Geosciences Submitted Proposals FY23

Proposal ID	PI/COPI	Title	Sponsor	Amount Requested
1733-23P	Vachula, Richard	Characterizing disturbance interactions and cascades between hurricanes, wildfire, and harmful algal blooms (HABs) on the Alabama-Florida (AL-FL) Gulf Coast	NSF	$761,231.53
1734-23P	Vachula, Richard	Rx-fire regime and forest watershed impacts on water quality and aquatic habitats in southern Alabama lakes over the last 85 years	NSF	$450,569.95
TOTAL PROPOSALS:	**28**		**TOTAL AMOUNT REQUESTED:**	**$13,412,489.74**

Physics Extramural Grants with New Dollars received FY23

Proposal ID	PI/COPI	Title	Sponsor	Amount	Flow
1265-23, 0759-23	Bernardi, Rafael	Resource for macromolecular modeling and visualization	University of Illinois-Urbana-Champaign	$21,101.00	UNIVERSITY - NIH FLOW
1403-23	Bodewits, Dennis	Cycle 29 Program GO-16770 "The return of Rosetta's comet 67P/Churyumov-Gerasimenko"	Space Telescope Science Institute (STScI) (funded by AURA)	$16,307.00	FEDERAL-NASA FLOW
1378-23, 0169-23	Bodewits, Dennis	Observing the bright comet C/2022 E3 to study charge exchange interactions with all solar wind states	NASA	$42,873.17	FEDERAL
0574-23	Bodewits, Dennis	HST/COS Chemical inventory and activity of interstellar object 2I/Borisov	Space Telescope Science Institute (STScI) (funded by AURA)	$27,881.00	FEDERAL-NASA FLOW
1042-23	Bodewits, Dennis	The volatile content of Oort cloud comet C/2014 UN271	Space Telescope Science Institute (STScI) (funded by AURA)	$13,999.00	FEDERAL-NASA FLOW
0416-23	Bodewits, Dennis	21-SWIFT2I-0013, Why was Comet C/2017 K2 active at record-setting distances from the sun and what happens when it reaches the inner solar system?	NASA	$39,459.28	FEDERAL
0300-23	Bodewits, Dennis; Noonan, John	Investigating sulfur abundances and distributions in UV comet observations	Space Telescope Science Institute (STScI) (funded by AURA)	$269,112.00	FEDERAL-NASA FLOW
1667-23	Bodewits, Dennis	22-SWIFT22-0023 The activity and evolution of oort cloud comets	NASA	$39,956.11	FEDERAL
2101-22	Bodewits, Dennis	Close encounter with comet 46P/Wirtanen: X-ray tomography of the coma	STScI	$19,656.00	FEDERAL-NASA FLOW
1733-23	Bromley, Steven	Collaborative research: Electron impact ionization and recombination properties of heavy elements in kilonovae	NSF	$151,918.80	FEDERAL
0798-23	Cichon, Max	Radiation testing cobalt services	Carlisle Interconnect Technologies	$3,964.00	INDUSTRY
1868-23, 1986-23	Comes, Ryan	In situ studies of charge transfer phenomena in complex oxide heterostructures	US Dept Of Energy - Office of Science	$238,244.70	FEDERAL
1721-23	Comes, Ryan	Studying magnetoelectric coupling in van der Waals/oxide thin film heterostructures	DOD - USAF - AFOSR - Air Force Office of Scientific Research	$299,155.50	FEDERAL

Physics Extramural Grants with New Dollars received FY23

Proposal ID	PI/COPI	Title	Sponsor	Amount	Flow
1318-23	Dhar, Sarit	Ion implantation with protons for Dr. Daniel Derkacs	SolAero Technologies Corp.	$5,000.00	INDUSTRY
0103-23, 0214-23	Dhar, Sarit	Accelerator Services - SolAero Technologies Corp. (H.Schoon)	SolAero Technologies Corp.	$5,107.80	INDUSTRY
0313-23	Dhar, Sarit	Proton irradiations for Daniel Derkacs & Andrew Epsenlaub Program 2, various energies and fluences	SolAero Technologies Corp.	$8,345.32	INDUSTRY
0490-23	Dhar, Sarit	Ion implantation with protons for Dr. Daniel Derkacs	SolAero Technologies Corp.	$714.25	INDUSTRY
1649-23	Dhar, Sarit	Ion implantation with protons for Dr. Ian Witting, 100-3000KeV, doses ranging 3E9 to 1E13 (Accelerator services)	MicroLink Devices, Inc.	$13,774.86	INDUSTRY
1732-23	Dhar, Sarit	Proton ion implantation at various energies and doses for Dr. Alex Fedoseyev	Solestial Solar (formerly Regher Solar)	$5,101.80	INDUSTRY
0479-23, 1894-23	Ennis, David	Three dimensional equilibrium stability and its impact on edge transport and divertor performance in Wendelstein 7-X	DOE - United States Department of Energy	$66,884.00	FEDERAL
2102-22, 1775-23, 2150-23	Ennis, David	MHD stability and equilibrium in a current-driven stellartor-Tokamak hybrid	DOE - United States Department of Energy	$740,000.00	FEDERAL
1735-23	Ennis, David	Erosion and re-deposition spectroscopic diagnostic developments for high-Z PFCS in DIII-D	US Dept Of Energy - Office of Science	$309,394.28	FEDERAL
1477-23A	Fogle, Michael	HALITE 2 Labor	CybEx LLC	$12,581.32	DOD-ARMY
0796-23A, 0422-23A	Fogle, Michael	Small satellite based secure communications through entangled quant key distribution	DOD-MDA-Missile Defense Agency	$32,251.89	DOD-FEDERAL
0141-23	Fogle, Michael	Collaborative Research: CubeSat: Observing terrestrial gamma-ray flash (TGF) beams with a pair cubesats	NSF	$85,000.00	FEDERAL

Physics Extramural Grants with New Dollars received FY23

Proposal ID	PI/COPI	Title	Sponsor	Amount	Flow
0433-23	Fogle, Michael	20-APRA20-0117, A joint theoretical and experimental approach to dielectronic recombination data needs	NASA	$97,422.00	FEDERAL
0063-23B	Fogle, Michael	HALITE	CybEx LLC	$23,314.43	INDUSTRY-DOD FLOW
1733-23, 2128-23B	Fogle, Michael	Collaborative research: Electron impact ionization and recombination properties of heavy elements in kilonovae	NSF	$75,949.40	FEDERAL
1698-23	Giordano, Nicholas	Physics of wind musical instruments	NSF	$126,495.00	FEDERAL
1377-23	Guazzotto, Luca	Collaborative research: Study of anisotropic dust interactions in the PK-4 experiment	NSF	$132,720.00	FEDERAL
1018-23	Guazzotto, Luca	Single and two-fluid plasmas with flow: Local analysis and model improvement	DOE	$129,418.50	FEDERAL
1490-23	Jin, Wencan	Probing novel phases of matter in van der Waals magnet Fe5-xGeTe2	NSF	$180,692.00	FEDERAL
1721-23	Jin, Wencan	Studying magnetoelectric coupling in van der Waals/oxide thin film heterostructures	DOD	$299,155.50	FEDERAL
1986-23, 1868-23	Jin, Wencan	In situ studies of charge transfer phenomena in complex oxide heterostructures	DOE	$238,244.70	FEDERAL
1827-23	Konopka, Uwe	JPL PK4 - Complex plasma under microgravity: Utilizing the International Space Station experiment PK-4, and beyond	California Institute of Technology-Jet Propulsion Laboratory	$103,573.29	UNIVERSITY-NASA FLOW
1877-23	Konopka, Uwe	Renewal of the Magnetized Plasma Research Laboratory (MPRL): Transport and coherent structures in low temperature plasmas and dusty plasmas at high magnetic fields	DOE	$172,553.40	FEDERAL
1377-23	Kostadinova, Evdokiya	Collaborative research: Study of anisotropic dust interactions in the PK-4 experiment	NSF	$132,720.00	FEDERAL

Physics Extramural Grants with New Dollars received FY23

Proposal ID	PI/COPI	Title	Sponsor	Amount	Flow
0844-23, 2143-22	Kostadinova, Evdokiya	Modeling plasma response to non-axisymmetric magnetic field perturbations in Tokamak boundaries	DOE	$55,186.48	FEDERAL
2103-23,1899-23	Kostadinova, Evdokiya	Energetic electron transport in magnetized plasma with magnetic islands	DOE	$136,118.77	FEDERAL
1900-23	Kostadinova, Evdokiya	Formation of organic compounds through meteoritic atmospheric shock	DOE	$34,520.50	FEDERAL
2119-23	Kostadinova, Evdokiya	Open and FAIR fusion for machine learning applications	DOE	$65,126.88	FEDERAL
1067-23	Kuroda, Marcelo	CAREER: Modulation of the interlayer coupling in heterostructures based on two-dimensional materials	NSF	$107,934.00	FEDERAL
0798-23	Landers, Allen	Radiation testing cobalt services	Carlisle Interconnect Technologies	$3,964.00	INDUSTRY
1983-23, 2110-23	Landers, Allen	COBOL services/Cyclo Technologies	Cyclo Technologies	$2,775.00	INDUSTRY
1334-23	Laurent, Guillaume	Tracking multi-electron dynamics in molecules at the attosecond timescale	DOE	$235,000.00	FEDERAL
1344-23	Lin, Yu	19-HSR-10_2-0045: Impact of solar wind pressure pulses and foreshock waves on the dayside magnetosphere	NASA	$156,940.00	FEDERAL
0644-23, 2055-23	Lin, Yu	Understanding warm plasma cloak in the magnetosphere	University of California-Los Angeles-UCLA	$79,203.20	UNIVERSITY-NASA FLOW
1704-22	Lin, Yu	APS Conference for Undergraduate Women in Physics (CUWiP 2023)	American Physical Society	$40,000.00	FOUNDATION-DOE FLOW
0433-23	Loch, Stuart	20-APRA20-0117, A joint theoretical and experimental approach to dielectronic recombination data needs	NASA	$97,422.00	FEDERAL

Physics Extramural Grants with New Dollars received FY23

Proposal ID	PI/COPI	Title	Sponsor	Amount	Flow
1733-23	Loch, Stuart	Collaborative research: Electron impact ionization and recombination properties of heavy elements in kilonovae	NSF	$151,918.80	FEDERAL
1735-23	Loch, Stuart	Erosion and re-deposition spectroscopic diagnostic developments for high-Z PFCS in DIII-D	DOE	$309,394.27	FEDERAL
0479-23	Maurer, David	Three dimensional equilibrium stability and its impact on edge transport and divertor performance in Wendelstein 7-X	DOE	$133,768.00	FEDERAL
0463-23	Maurer, David	Magnetohydrodynamic optimization of stellarator fusion energy systems	University of Montana	$28,577.50	UNIVERSITY- DOE FLOW
2102-22	Maurer, David	MHD stability and equilibrium in a current-driven stellartor-Tokamak hybrid	DOE	$740,000.00	FEDERAL
1900-23	Mehta, Christopher	Formation of organic compounds through meteoritic atmospheric shock	DOE	$34,520.50	FEDERAL
0463-23	Schmitt, John C.	Magnetohydrodynamic optimization of stellarator fusion energy systems	University of Montana	$28,577.50	UNIVERSITY- DOE FLOW
0479-23, 1894-23	Schmitt, John C.	Three dimensional equilibrium stability and its impact on edge transport and divertor performance in Wendelstein 7-X	DOE	$66,884.00	FEDERAL
1254-23	Thakur, Saikat Chakraborty	Collaborative research: ECLIPSE: Physical and chemical insights into particle-plasma interactions in dusty plasma using optical trapping and multi-fold laser diagnostics	NSF	$255,772.65	FEDERAL
1254-23	Thomas, Edward	Collaborative research: ECLIPSE: Physical and chemical insights into particle-plasma interactions in dusty plasma using optical trapping and multi-fold laser diagnostics	NSF	$45,136.35	FEDERAL
0405-23, 1791-23	Thomas, Edward	Connecting the plasma universe to plasma technology in AL: The science and technology of low-temperature plasma	UAH	$24,422.18	UNIVERSITY- NSF FLOW
0812-23	Thomas, Edward	Environmental compliance services at Fort Benning, Georgia	DOD	$879,762.00	FEDERAL

Physics Extramural Grants with New Dollars received FY23

Proposal ID	PI/COPI	Title	Sponsor	Amount	Flow
1827-23	Thomas, Edward	JPL PK4 - Complex plasma under microgravity: Utilizing the International Space Station experiment PK-4, and beyond	California Institute of Technology-Jet Propulsion Laboratory	$51,013.71	UNIVERSITY-NASA FLOW
1877-23	Thomas, Edward	Renewal of the Magnetized Plasma Research Laboratory (MPRL): Transport and coherent structures in low temperature plasmas and dusty plasmas at high magnetic fields	DOE	$402,624.60	FEDERAL
1258-23	Wang, Xueyi	Specifying properties of dayside magnetopause reconnection from a machine-learning model for the Earth's cusps	The Catholic University of America	$49,822.00	UNIVERSITY-NASA FLOW
1576-23	Wang, Xueyi	Predictive model of hot flow anomalies and foreshock bubbles	UCLA	$20,438.00	UNIVERSITY-NASA FLOW
0644-23, 2055-23	Wang, Xueyi	Understanding warm plasma cloak in the magnetosphere	UCLA	$118,804.80	UNIVERSITY-NASA FLOW
1865-23	Wang, Xueyi	Collaborative research: GEM - How upstream solar wind conditions determine the properties of the foreshock backstreaming ions	NSF	$82,799.00	FEDERAL
1269-23	Zhao, Hong	Collaborative research: GEM--Quantifying the contribution of off-equatorial ultra-low frequency (ULF) waves on radial diffusion in the radiation belts	NSF	$89,980.00	FEDERAL
1032-23	Zhao, Hong	Investigating the role of subauroral polarization stream (SAPS) on the energetic particle deep penetration	NASA	$165,579.00	FEDERAL
0503-23, 2061-23	Zhao, Hong	The miniaturized high-energy-resolution relativistic electron telescope	NASA	$296,859.00	FEDERAL
2126-23	Zhao, Hong	The roles of inward radial diffusion and local acceleration on the energy-dependent energization of ultra relativistic electrons	NASA	$250,937.00	FEDERAL
			TOTAL:	**$9,421,822.99**	

Physics Active Awards FY23

PI/COPI	Sponsor	Title	Start Date	End Date
Allen Landers	Times Microwave Systems	TIMES MICROWAVE SYSTEMS/COBALT SERVICES	12/3/2021	12/2/2022
Allen Landers/Max Cichon	Carlisle Interconnect Technologies	CARLISLE INTERCONNECT TECH/RADIATION TESTING	2/8/2022	9/30/2023
Allen Landers	Cyclo Technologies, Inc.	COBOL SERVICES	9/15/2023	9/15/2024
Christopher Mehta/Evdokiya Kostadinova	DOE	FORMATION OF ORGANIC COMPOUNDS THROUGH METEROITIC ATMOPSHERIC SHOCK	9/1/2022	8/31/2024
David Ennis/Stuart Loch	DOE	EROSION & RE-DEPOSITION SPECTROSCOPIC DIAGNOSTIC DVLMTS FOR HIGH-Z PFCS IN DIII-D	7/1/2022	6/30/2024
David Maurer/Stephen Knowlton/Gregory Hartwell/David Ennis	DOE	MHD STABILITY & EQUILIBRIUM IN A CURRENT-DRIVEN STELLARTOR-TOKAMAK HYBRID	9/1/2000	5/15/2024
David Maurer/David Ennis/ John Schmitt	DOE	THREE DIMENSIONAL EQUILIBRIUM STABILITY &ITS IMPACT ON EDGE TRANSPORT &DIVERTOR PERFORMANCE IN WENDELSTEIN 7-X	8/15/2015	8/13/2024
Dennis Bodewits	NASA	COMET DIAGNOSTICS OF THE SOLAR WIND	11/1/2020	10/31/2022
Dennis Bodewits	Assoc of Universities for Research in Astronomy	COMET OUTBURST TARGET OF OPPORTUNITY	12/1/2019	11/30/2022
Dennis Bodewits	Assoc of Universities for Research in Astronomy	CLOSE ENCOUNTER WITH COMET 46P/WIRTANEN	12/1/2018	11/30/2022
Dennis Bodewits	Assoc of Universities for Research in Astronomy	COMPOSITION & PHYSICAL PROCESSES OF INNER COMA OF COMET 46P-WIRTANEN	3/1/2019	2/28/2023
Dennis Bodewits	NASA	DEEP IMPACT NARROWBAND IMAGING OF GAS &DUST AROUND COMET 9P/TEMPEL 1	3/14/2019	3/13/2023
Dennis Bodewits	NASA	NEIL GEHRELS-SWIFT OBSERVATORY CATALOGUE OF UV SPECTRA OF ASTEROIDS	4/1/2020	3/31/2023
Dennis Bodewits	Assoc of Universities for Research in Astronomy	CONSTRAINING THE COMA VOLATILE CONTENT OF INTERSTELLAR COMET 2I/BORISOV	4/1/2020	3/31/2023
Dennis Bodewits	Planetary Science Institute	ARCHIVING TWO DECADES OF WIDE-FIELD SPACE-BASED UV-VISABLE OBSERVATIONS OF COMETS	8/1/2018	5/15/2023

Physics Active Awards FY23

PI/COPI	Sponsor	Title	Start Date	End Date
Dennis Bodewits	Assoc of Universities for Research in Astronomy	DETERMINGING THE CAUSE OF ACTIVITY OF THE FIRST ACTIVE TROJAN, 2019 LD2	8/1/2020	7/31/2023
Dennis Bodewits	NASA	NICER DIAGNOSTICS OF THE COMET-SOLAR WIND INTERACTION WITH DEEP SPACE 1'S 19P/BORRELLY AND ROSETTA'S 67P/CHURYUMOV-GERASIMENKO	8/20/2021	8/18/2023
Dennis Bodewits	NASA	UNRAVEL PHOTON & ELECTRON PROCESSES &THEIR INTERACTION WITH COMA OF 67P/CHURYUMOV-GERASIMENKO	9/1/2019	1/1/2024
Dennis Bodewits	Assoc of Universities for Research in Astronomy	HST-COS CHEMICAL INVENTORY &ACTIVITY OF INTERSTELLAR OBJECT 2I/BORISOV	3/1/2020	2/28/2024
Dennis Bodewits	NASA	ACTIVITY &EVOLUTION OF OORT CLOUD COMETS	9/1/2023	8/31/2024
Dennis Bodewits	NASA	CHARACTERIZING THE DISTANT ACTIVITY EVOLUTION OF COMET C/2017 K2	7/1/2022	8/31/2024
Dennis Bodewits	NASA	USING NICER TO STUDY THE SOLAR WIND INTERACTION WITH THE RARE CO-RICH COMET C/2017 K2	10/1/2022	9/30/2024
Dennis Bodewits	Assoc of Universities for Research in Astronomy	THE RETURN OF ROSETTA'S COMET 67P/CHURYUMOV-GERASIMENKO	11/1/2021	10/31/2024
Dennis Bodewits	Assoc of Universities for Research in Astronomy	DETECTING WATER ON METALLIC M-TYPE ASTEROIDS IN THE FAR-UV	11/1/2021	10/31/2024
Dennis Bodewits	NASA	WHY WAS COMET C/2017 K2 ACTIVE AT RECORD-SETTING DISTANCES FROM THE SUN?	2/1/2023	1/31/2025
Dennis Bodewits	Assoc of Universities for Research in Astronomy	CHARACTERIZING THE AFTERMATH OF MEGA-OUTBURSTS OF CENTAUR 29P	3/1/2022	2/28/2025
Dennis Bodewits	Assoc of Universities for Research in Astronomy	DETERMINING THE COMA CONTENTS OF THE INCOMING OORT CLOUD COMET C/2014 UN271	4/1/2022	3/31/2025
Dennis Bodewits	Assoc of Universities for Research in Astronomy	FIRST DETECTION OF VOLATILES FROM A MAIN-BELT COMET	7/1/2022	6/30/2025
Dennis Bodewits/John Noonan	Assoc of Universities for Research in Astronomy	INVESTIGATING SULFUR ABUNDANCES &DISTRIBUTIONS IN UV COMET OBSERVATIONS	1/1/2023	12/31/2025
Dennis Bodewits	Assoc of Universities for Research in Astronomy	THE VOLATILE CONTENT OF OORT CLOUD COMET C/2014 UN271	4/1/2023	3/31/2026

Physics Active Awards FY23

PI/COPI	Sponsor	Title	Start Date	End Date
Edward Thomas		PROGRAM INCOME FOR ECLIPSE CONF-ADDITIVE	2/15/2022	1/31/2023
Edward Thomas	NSF	SUPPORT FOR 2022 ECLIPSE MEETING	2/15/2022	1/31/2023
Edward Thomas	CALIFORNIA INSTITUTE OF TECHNOLOGY	LUNAR DUST RESCH &MITIGATION SCIENCE DEFINITION TEAM	2/6/2020	2/5/2023
Edward Thomas	University of Alabama in Huntsville	SEED FUNDING FOR DR FENG SHI	9/1/2017	7/31/2023
Edward Thomas	University of Alabama in Huntsville	CONNECTING THE PLASMA UNIVERSE TO PLASMA TECHNOLOGY IN ALA	8/1/2017	7/31/2023
Edward Thomas	University of Alabama in Huntsville	SEED FUNDING FOR DR SURABHI JAISWAL	9/1/2017	7/31/2023
Edward Thomas	University of Alabama in Huntsville	DVLMT OF A COGNITIVE RF PLASMA ANALYZER TO ENABLE PLANETARY SPACE ENVIRONMENT EXPLORATION	10/1/2020	7/31/2023
Edward Thomas	University of Alabama in Huntsville	CERIF GRAD STUDENT PROG SUPPORT FOR TAYLOR HALL	9/1/2017	7/31/2023
Edward Thomas/Uwe Konopka	DOE	MAGNETIZED PLASMA RESCH LAB AS A DOE PLASMA SCIENCE FACILITY	9/1/2018	8/31/2024
Edward Thomas	Harris Corporation	SIMULATED PLASMA CONDITIONS IN THE UPPER ATMOSPHERE	2/27/2020	12/31/2024
Edward Thomas/Mary Lou Ewald/Xueyi Wang/Joseph Perez/Yu Lin/Amit Morey/David Maurer/Uwe Konopka/Evdokiya Kostadinova	University of Alabama in Huntsville	FUTURE TECHNOLOGIES ENABLED BY PLASMA PROCESSES	6/1/2022	4/30/2027
Evdokiya Kostadinova	Baylor University	ONSET OF TURBULENCE IN DUSTY PLASMA LIQUIDS	8/26/2021	7/31/2023
Evdokiya Kostadinova	DOE	HYPERVELOCITY IMPACT IN STELLAR MEDIA: HEAT SHIELDING, SHOCK FRONTS & ABLATION CLOUDS	5/1/2022	4/30/2024
Evdokiya Kostadinova	DOE	MODELING PLASMA REPONSE TO NON-AXISYMMETRIC MAGNETIC FIELD PERTURBATIONS IN TOKAMA BOUNDRIES	9/1/2021	8/31/2024

Physics Active Awards FY23

PI/COPI	Sponsor	Title	Start Date	End Date
Evdokiya Kostadinova	DOE	OPEN AND FAIR FUSION FOR MACHINE LEARNING APPLICATIONS	9/1/2023	8/31/2024
Evdokiya Kostadinova	DOE	ENERGETIC ELECTRON TRANSPORT IN MAGNETIZED PLASMA W/MAGNETIC ISLANDS	9/1/2022	8/31/2024
Evdokiya Kostadinova/Luca Guazzotto	NSF	STUDY OF ANISOTROPIC DUST INTERACTIONS IN THE PK-4 EXPERIMENT	6/1/2023	5/31/2026
Guillaume Laurent	US Air Force	US AIR FORCE/ATTOSECOND ELECTRON DYNAMICS IN METALLIC NANOPARTICLES, METALLIC SURFACES & NANOPARTICLES-COVERED METALLIC SURFACES	6/15/2018	6/14/2023
Guillaume Laurent	DOE	TRACKING MULTI-ELECTRON DYNAMICS IN MOLECULES AT THE ATTOSECOND TIMESCALE	8/15/2023	8/14/2024
Guillaume Laurent	NIH	NATL INST HLTH/DELIVERY OF ANTI-FUNGAL DSRNA INTO YEAST AND FILAMENTOUS FUNGI USING LASER-ACTIVATED NANOPARTICLES	9/20/2021	8/31/2024
Hong Zhao	NSF	MULTIPOINT OBSERVATIONS &GLOBAL MODELING OF ENERGETIC PARTICLE DEEP PENETRATION INTO THE LOW L REGION OF EARTH'S INNER MAGNETOSPHERE	1/1/2021	5/31/2024
Hong Zhao	NASA	MINIATURIZED HIGH-ENERY-RESOLUTION RELATIVISTIC ELECTRON TELESCOPE	9/1/2021	8/31/2024
Hong Zhao	NSF	QUANTIFYING THE ROLE OF RADIAL DIFFUSION ON THE ENERGY-DEPENDENT ACCELERATION OF ULTRARELATIVISTIC ELECTRONS IN THE CTR OF OUTER RADIATION BELT	1/1/2021	2/28/2025
Hong Zhao	NASA	ROLES OF INWARD RADIAL DIFFUSION &LOCAL ACCELERATION ON THE ENERGY-DEPENDENT ENERGIZATION OF ULTRA RELATIVISTIC ELECTRONS	4/1/2022	3/31/2025
Hong Zhao	NASA	INVESTIGATING THE ROLE OF SUBAURORAL POLARIZATION STREAM ON THE ENERGETIC PARTICLE DEEP PENETRATION	5/11/2022	5/10/2025
Hong Zhao	NSF	GEM-QUANTIFYING THE CONTRIBUTION OF OFF-EQUATORIAL ULTRA-LOW FREQUENCY WAVES ON RADIAL DIFFUSION IN THE RADIATION BELTS	6/1/2023	5/31/2026
John Schmitt/David Maurer	University of Montana	MAGNETOHYDRODYNAMIC OPTIMIZATION OF STELLARATOR FUSION ENERGY SYSTMES	8/1/2022	7/31/2024
Joseph Perez	NASA	STORM TIME O+ RING CURRENT IMAGING EVOLUTION	5/9/2022	5/8/2026
Luca Guazzotto	DOE	TWO FLUID EQUILIBRIUM &STABILITY ANALYSIS IN AXISYMMETRIC PLASMAS	7/1/2015	6/30/2024

Physics Active Awards FY23

PI/COPI	Sponsor	Title	Start Date	End Date
Marcelo Kuroda	NSF	MODULATION OF THE INTERLAYER COUPLING IN HETEROSTRUCTURES BASED ON TWO-DIMENSIONAL MATERIALS	7/1/2019	6/30/2024
Mark Adrian	NASA	DVLMT OF LOW-ENERGY ELECTRON PLASMA INSTRUMENT	7/1/2022	6/30/2025
Michael Fogle	Clemson University	MOMENTUM RESOLVED CHARGE EXCHANGE CROSS SECTION MEASUREMENTS & X-RAY SPECTROSCOPY	2/1/2019	3/11/2023
Michael Fogle	US Department of Defense	SMALL SATELLITE BASED SECURE COMMUNICATION THRU ENTANGLED QUANT KEY DISTRIBUTION-OPTION 1	4/2/2022	4/1/2023
Michael Fogle/Jean Marie Wersinger	NSF	OBSERVING TERRESTRIAL GAMMA-RAY FLASH BEAMS WITH A PAIR OF CUBESATS	8/15/2015	7/31/2023
Michael Fogle	Space Dynamics Labaoratory	TRUSTED-NODE QUANTUM KEY DISTRIBUTION FROM A CUBE SAT	1/1/2022	1/31/2024
Michael Fogle	US Department of Defense	SMALL SATELLITE BASED SECURE COMMUNICATION THRU ENTAGNLED QUANTUM KEY DISTRIBUTION	4/2/2023	4/1/2024
Michael Fogle/Stuart Loch	NASA	A JOINT THEORETICAL & EXPERIMENTAL APPROACH TO DIELECTRONIC RECOMBINATION DATA NEEDS	7/8/2021	7/7/2024
Michael Fogle/Stuart Loch	NSF	JOINT THEORETICAL &EXPERIMENTAL APPROACH TO LOW-TEMP DIELECTRONIC RECOMBINATION DATA FOR PHOTOIONIZED ASTROPHYSICAL ENVIRONMENTS	9/1/2021	8/31/2024
Michael Fogle	CybEx, LLC	HALITE 2-LABOR	10/1/2022	8/15/2026
Michael Fogle	CybEx, LLC	HALITE-LABOR COSTS ONLY	10/1/2022	8/15/2026
Nicholas Giordano	NSF	PHYSICS OF WIND MUSICAL INSTRUMENTS	12/15/2019	11/30/2023
Nicholas Giordano	NSF	PHYSICS OF WIND MUSICAL INSTRUMENTS	8/1/2023	7/31/2026
Rafael Bernardi	University of Illinois	RESOURCE FOR MACROMOLECULAR MODELING &VISUALIZATION	9/28/2022	7/31/2024
Rafael Bernardi	NSF	CAREER: IN SILICO SINGLE-MOLECULE FORCE SPECTROSCOPY	3/1/2022	2/28/2027
Ryan Comes/Byron Farnum/ Masoud Mahjouri Samani/ Peng Li	NSF	ACQUISITION OF A X-RAY DIFFRACTION SYSTEM FOR AMTERIALS RESCH IN ALA	8/1/2020	7/31/2023

Physics Active Awards FY23

PI/COPI	Sponsor	Title	Start Date	End Date
Ryan Comes	US Air Force	METASTABLE OXIDES FOR HIGH-MOBILITY &SPIN-ORBIT 2D ELECTRONICS	1/1/2020	1/26/2024
Ryan Comes/Wencan Jin	DOE	IN SITU STUDIES OF CHARGE TRANSFER PHENOMENA IN COMPLEX OCIDE HETEROSTRUCTURES	9/1/2022	8/31/2024
Ryan Comes	NSF	TOPOLOGICAL PHENOMENA IN 4D &5D COMPLEX OXIDE INTERFACES &SUPERLATTICES GROWN BY HYBRID MOLECULAR BEAM EPITAXY	5/1/2021	4/30/2026
Saikat Chakraborty Thakur/Ed Thomas	University of Alabama in Huntsville	DIRECT NANOMECHANICAL MEASUREMENT OF LASER-GENERATED PLASMA SHOCKS &THEIR INTERACTION WITH 2D MATERIALS	8/1/2021	7/31/2023
Saikat Chakraborty Thakur	Innovative Aerospace, LLC	LUNAR DUST MITIGATION DEVICES	9/1/2022	6/15/2024
Saikat Chakraborty Thakur/ Ed Thomas	NSF	PHYSICAL &CHEMICAL INSIGHTS INTO PARTICLE-PLASMA INTERACTIONS IN DUSTY PLASMA USING OPTICAL TRAPPING &MULTI-FOLD LASER DIAGNOSTICS	6/1/2023	5/31/2026
Sarit Dhar	Blue Wave Semiconductors Inc	PROTON IRRADIATIONS	2/15/2022	2/15/2023
Sarit Dhar	Pennsylvania State University	PROTON IRRADIATIONS USING VARIOUS ENERGIES &FLUENCES	3/25/2022	3/25/2023
Sarit Dhar	JESCO Projects, LLC	THIN FILM DIAMOND-LIFT OFF BY ION IMPLANTATION &ANNEALING	4/1/2022	4/1/2023
Sarit Dhar	US Army	ACCELERATOR SERVICES	6/30/2022	6/30/2023
Sarit Dhar	Solestial, Inc.	PROTON IRRADIATIONS	1/10/2020	6/30/2023
Sarit Dhar	SolAero Technologies Corp.	PROTON EXPOSURE & RETURN	9/21/2022	9/30/2023
Sarit Dhar	SolAero Technologies Corp.	ACCELERATOR SERVICES	10/1/2022	9/30/2023
Sarit Dhar	SolAero Technologies Corp.	ACCELERATOR SERVICES-RD035	8/1/2020	9/30/2023
Sarit Dhar	SolAero Technologies Corp.	ION IMPLANTATION WITH PROTONS	1/15/2023	1/15/2024
Sarit Dhar	SolAero Technologies Corp.	ION IMPLEMENTATION WITH PROTONS FOR DR. DANIEL DERACS	6/1/2023	6/1/2024

Physics Active Awards FY23

PI/COPI	Sponsor	Title	Start Date	End Date
Sarit Dhar	MicroLink Devices, Inc	ION IMPLANTATION WITH PROTONS	8/1/2023	8/1/2024
Sarit Dhar	Solestial, Inc.	SOLESTIAL INC/PROTON ION IMPLANTATION AT VARIOUS ENERGIES &DOSES	8/1/2023	8/1/2024
Sarit Dhar	University of Alabama in Huntsville	NEW INTERFACE PASSIVATION PROCESS FOR STABLE SiC POWER MOSFETs AT500Â°C	9/16/2023	8/15/2024
Sarit Dhar	Spectrolab Inc	0.3 & 3.0 MeV PROTON IRRADIATIONS FOR MICHAEL BENNETT	9/1/2023	9/1/2024
Sarit Dhar	SolAero Technologies Corp.	ACCELERATOR SERVICES-CS007	8/1/2020	9/30/2024
Sarit Dhar	The Aerospace Corporation	ACCELERATOR SERVICES	8/8/2019	9/30/2025
Stuart Loch/Michael Fogle/Steven Bromley	NSF	ELECTRON IMPACT IONIZATION &RECOMBINATION PROPERTIES OF HEAVY ELEMENTS IN KILONOVAE	9/1/2023	8/31/2026
Uwe Konopka	University of Alabama in Huntsville	DUSTY PLASMAS: SPACE LIFE &PHYSICAL SCIENCES & RESEARCH APPS	9/1/2020	7/31/2023
Uwe Konopka	CALIFORNIA INSTITUTE OF TECHNOLOGY	COMPACT MISSION SCIENCE DEFINITION TEAM	10/1/2020	9/30/2023
Uwe Konopka/Ed Thomas	CALIFORNIA INSTITUTE OF TECHNOLOGY	COMPLEX PLASMA UNDER MICROGRAVITY: UTILIZING THE INTERANTIONAL SPACE STATION EXPERIMENT PK-4 &BEYOND	6/15/2022	6/15/2024
Wencan Jin	NSF	PROBING NOVEL PHASES OF MATTER IN VAN DER WAALS MAGNET	8/15/2021	7/31/2024
Wencan Jin/Ryan Comes	US Air Force	STUDYING MAGNETOELECTRIC COUPLING IN VAN DER WAALS-OXIDE THIN FILM HETEROSTRUCTURES	8/1/2023	7/31/2026
Xueyi Wang	Regents University of California Los Angeles	IMPACT OF FORESHOCK TRANSIENTS ON THE EARTH'S NIGHTSIDE MAGNETOSPHERE	4/16/2019	4/15/2023
Xueyi Wang	Catholic University of America, The	SPECIFYING PROPERTIES OF DAYSIDE MAGNETOPAUSE RECONNECTION FROM A MACHINE-LEARNING MODEL FOR THE EARTH'S CUSPS	6/1/2023	5/31/2024
Xueyi Wang/Yu Lin	Regents University of California Los Angeles	UNDERSTANDING WARM PLASMA CLOAK IN THE MAGNETOSPHERE	6/1/2022	5/31/2024
Xueyi Wang	UNIVERSITY OF MARYLAND	INVESTIGATING QUASI-PERIODIC MODULATION OF THE FAST MAGNETOSONIC WAVES INTHE EARTHS INNER MAGNETOSHPERE	8/5/2021	8/4/2024

Physics Active Awards FY23

PI/COPI	Sponsor	Title	Start Date	End Date
Xueyi Wang	NASA	INVESTIGATION OF WHISTLER-MODE CHORUS WAVE GNERATION &ASSOCIATED ELECTRON SCATTERING IN THE EARTH'S INNER MAGNETOSPHERE	9/1/2021	8/31/2024
Xueyi Wang	Regents University of California Los Angeles	PREDICTIVE MODEL OF HOT FLOW ANOMOLIES FOR FORESHOCK BUBBLES	10/17/2022	10/16/2025
Xueyi Wang	NSF	HOW UPSTREAM SOLAR WIND CONDITIONS DETERMINE THE PROPERTIES OF THE FORESHOCK BACKSTREAMING IONS	8/15/2023	7/31/2026
Xueyi Wang/Yu Lin	NSF	GEM-IMPACT OF SOLAR WIND DYNAMIC PRESSURE ENHANCEMENT ON THE CUSP &POLAR CAP ION SOURCE	10/1/2022	9/30/2026
Yu Lin	University of California Regents Riverside	HELIOSPHERIC MAGNETIC ENERGY STORAGE & CONVERSION	3/4/2020	5/15/2023
Yu Lin	American Physical Society	CONFERENCE FOR UNDERGRADUATE WOMEN IN PHYSICS-2023-PARTICIPANT SUPPORT COSTS	9/1/2022	7/30/2023
Yu Lin	Regents University of California Los Angeles	FORESHOCK TRANSIENTS' IMPACT ON MAGNETOSPHERIC PERTURBATIONS &PLASMA POPULATION	7/1/2023	6/30/2024
Yu Lin	NASA	IMPACT OF SOLAR WIND PRESSURE PULSES &FORESHOCK WAVES ON THE DAYSIDE MAGNETOSPHERE	7/14/2020	7/13/2024
Yu Lin	State University of Iowa	TRACERS PHASE A	3/5/2018	8/31/2024
Yu Lin	University of Alaska Anchorage	INVESTIGATING MAGNETSOPHERE-IONOSPHERE COUPLING ASSOCIATED WITH FLOW INDUCED ALFVEN WAVE ENERGY IN THE MAGNETOTAIL	10/1/2021	9/30/2024
Yu Lin/Xueyi Wang/Hong Zhao	NSF	GEM-RADIATION BELT LOSSES USING COMBINED GLOBAL HYBRID &TEST PARTICLE SIMULATIONS	8/1/2021	7/31/2025

Physics Submitted Proposals FY23

Proposal ID	PI/COPI	Title	Sponsor	Amount Requested
0784-23P	Adrian, Mark	: Plasma Wave Radio Sounding Using Signals of Opportunity	DeepSpace Tech	$36,407.15
1247-23P	Adrian, Mark	The Distribution of Dust at 1-AU	NASA	$757,120.00
0161-23P	Ahyi, Ayayi	New interface passivation process for stable SiC power MOSFETs at 500°C	UAH	$79,565.03
0619-23P	Bernardi, Rafael	MRI: Acquisition of a GPU-based Computing Cluster for Multidisciplinary Research and Education	NSF	$3,979,460.00
0501-23P	Bernardi, Rafael	TEMPORARY TITLE: Developing mechanoative biosensors.	NIH	$2,696,152.12
	Bodewits, Dennis	AL space grant proposal Thomas Deskins	NASA	
0759-23P	Bodewits, Dennis	The Activity and Evolution of Oort Cloud Comets	NASA	$39,956.11
0689-23P	Bodewits, Dennis	The Volatile Content of Oort Cloud Comet C/2014 UN271	NASA	$23,991.48
0572-23P	Bodewits, Dennis	NICER Cycle 5 - Observing the Bright Comet C/2022 E3 to Study Charge Exchange Interactions with All Solar Wind States	NASA	$42,118.17
0502-23P	Bodewits, Dennis	FINESST Nasa Grad TBD	NASA	$149,987.79
0381-23P	Bodewits, Dennis	Investigating Sulfur Abundances and Distributions in UV Comet Observations	NASA	$269,112.61
0754-23P	Bodewits, Dennis	The ULTRASAT survey of cometary water production rates throughout the solar system using OH emission	NASA	$209,654.76
1229-23P	Bodewits, Dennis	JWST-GO-04198.007 Multi-Cycle monitoring of the volatile evolution of a returning planetesimal as it approaches perihelion	STSCI	$37,520.00

Physics Submitted Proposals FY23

Proposal ID	PI/COPI	Title	Sponsor	Amount Requested
1260-23P	Bodewits, Dennis	JWST Cycle 2 #3: Close up samples of Exoplanetary Systems: Characterizing the next Interstellar Object	STSCI	$26,832.08
1242-23P	Bodewits, Dennis	Characterization of Water Outgassing in Main-Belt Comets 133P/E1st-Pizarro and 358P/Panstarrs	STSCI	$59,640.00
1176-23P	Bodewits, Dennis	Investigating the mechanism of CO+ ionization in the coma of comet 29P/Schwassmann–Wachmann at 6 AU from the Sun	NASA	$462,014.29
0519-23P	Burkholder, Eric	Mixed Methods Investigation of how to structure in class groups for optimal and equitable learning in physics	NSF	$328,761.35
0487-23P	Burkholder, Eric	Using feedback and reflection to improve self-assessment and psychological outcomes for underrepresented students in STEM	Spencer Foundation	$364,130.72
0372-23P	Burkholder, Eric	Assessing real-world problem-solving in undergraduate physics curricula	NSF	$293,862.44
0313-23P	Burkholder, Eric	Teaching problem solving to create accessible and equitable introductory STEM learning environment	Stanford	$560,766.00
1454-22P	Burkholder, Eric	Equitable group structure: barriers, moderating factors, and solutions	NSF	$1,024,912.48
1324-23P	Burkholder, Eric	CAREER: Understanding and optimizing introductory physics to promote retention of underrepresented groups in engineering	NSF	$1,458,980.53
1338-23P	Burkholder, Eric	Equitable group structure: barriers, moderating factors, and solutions	NSF	$1,032,847.76
0198-23P	Chakraborty, Saikat	TBD (ECLIPSE: Collaborative Research: Physical and chemical insights into particle formation and dynamics in dusty plasma via multi-fold laser diagnostics)	NSF	$300,909.00
1232-23P	Chen, Huayue	Investigation of Chorus Wave Dynamics in the Realistic Magnetosphere	NASA	$835,671.00
1770-23P	Chen, Huayue	GEM: Investigation of Electron Microburst Precipitation Driven by Chorus Waves in the Earth's inner Magnetosphere	NSF	$658,345.38

Physics Submitted Proposals FY23

Proposal ID	PI/COPI	Title	Sponsor	Amount Requested
0393-23P	Dhar, Sarit	In Implantation with Protons	SolAero Tech	$714.25
0090-23P	Dhar, Sarit	Accelerator Services	SolAero Tech	$1,738.01
0817-23P	Dhar, Sarit	Accelerator - SolAero Tech	SolAero Tech	$1,071.38
1151-23P	Dhar, Sarit	Accelerator Services-Ion Implantation with Protons for Dr Daniel Derkacs	SolAero Tech	$5,000.00
1416-23P	Dhar, Sarit	Accelerator Services- Microlink devices	MicroLink Devices	$13,774.86
1473-23P	Dhar, Sarit	Accelerator services	Solestial Inc	$5,101.80
1612-23P	Dhar, Sarit	Accelerator Services	Spectrolab	$17,856.30
1168-23P	Dong, Jianjun	Degradation Reactions in Electrothermal Energy Storage (DEGREES)	NREL-DOE	$999,998.20
0271-23P	Fogle, Michael	Ion-Atom Charge Exchange (TBD details..)	NASA	$289,068.29
0061-23P	Giordano, Nicholas	Physics of Wind Musical Instruments	NSF	$304,014.00
1180-23P	Goyal, Ravinder	Electron energization by oblique whistler waves generated at the equator in Earth’s radiation belts	NASA	$519,350.00
0778-23P	Gramlich, Michael	Modeling and Predicting Uncertainty in Presynaptic Changes During Learning and Memory Using a Bootstrapping Approach	NSF	$652,798.59
0569-23P	Gramlich, Michael	Dynamically Changing Presynaptic Vesicle Pool Size Mediates Long Term Potentiation	NIH	$395,052.00

Physics Submitted Proposals FY23

Proposal ID	PI/COPI	Title	Sponsor	Amount Requested
	Gramlich, Michael	Astrocytes Mediate Spread of Pathological Tau in a Tau P301L Mouse Model	Alzheimers Association	
0051-23P	Gramlich, Michael	Astrocytes Contribute to P301L Tau Propagation resulting in Increased Presynaptic Glutamate Release	NIH	$414,675.44
1206-23P	Gramlich, Michael	Presynaptic Structure Constrains Dynamically Changing Synaptic Vesicle Pool Size and Dynamics During Plasticity	NIH	$414,150.00
1029-23P	Gramlich, Michael	Identify biomarkers of myofascial pain syndrome of the low back	NIH	$49,999.00
1402-23P	Gramlich, Michael	CAREER: Multi-Scale Multi-Cytoskeleton Synaptic Vesicle Mobility Supports Efficient Vesicle Trafficking and Protein Turnover Mediated by Activity	NSF	$1,965,321.00
1446-23P	Gramlich, Michael	Dynamically Changing Presynaptic Vesicle Pool Size Mediates Presynaptic Plasticity Via Inter-Synaptic Vesicle Exchange	NSF	$843,625.17
0744-23P	Guazzotto, Luca	Stellarator prediction and avoidance of disruptions: machine learning and three-dimensional fields	DOE	$679,667.37
	Hashemi, Mohtadin	Unraveling the Dynamics of Nucleosome Arrays: Identifying Key Factors that Modulate Gene Access	DOE	
0582-23P	Jin, Wencan	Studying magnetoelectric coupling in van der Waals/oxide thin film heterostructure	DOD	$598,311.08
0200-23P	Jin, Wencan	Characterization, modeling, and test generation for defects in skyrmion logic gates and circuits	NSF	$544,111.87
1393-23P	Jin, Wencan	CAREER: Chiral Phenomena of Excited States in Spintronics	NSF	$738,117.93
0154-23P	Kostadinova, Evdokiya	Study of anisotropic dust interactions in the Pk-4 Experiment	NSF	$403,108.63

Physics Submitted Proposals FY23

Proposal ID	PI/COPI	Title	Sponsor	Amount Requested
0642-23P	Kostadinova, Evdokiya	Open and FAIR Fusion for Machine Learning Applications	DOE	$198,237.40
	Kostadinova, Evdokiya	CAREER: Spectral model of liquid plasma near the crystallization point	NSF	$702,204.00
0705-23P	Kostadinova, Evdokiya	Modeling Plasma Response to Non-Axisymmetric Magnetic Field Perturbations in Tokamak Boundaries	DOE	$448,120.07
	Landers, Allen	Radiation Testing Cobalt Services	Carlisle Interconnect Technologies	$7,927.50
1631-23P	Landers, Allen	COBOL Services	CYCLO Technologies	$1,925.00
0644-23P	Laurent, Guillaume	Tracking multi-electron dynamics in molecules at attosecond timescale	DOE	$607,847.93
0658-23P	Lin, Yu	Solar Wind Control of Kinetic Coupling Between the Inner and Outer Magnetosphere	NASA	$1,139,199.58
1545-22P	Lin, Yu	Global hybrid simulation of magnetopause reconnection and the associated solar wind particle entry	NASA	$968,924.00
0106-23P	Lin, Yu	Foreshock Transients' Impact on Magnetospheric Perturbations and Plasma Population	NASA	$259,533.66
0105-23P	Lin, Yu	Global and kinetic aspects of mass, momentum, and energy transport across the magnetopause	NASA	$259,495.91
0999-23P	Lin, Yu	Iowa Tracers Phase C-D	University of Iowa	$106,632.00
1129-23P	Lin, Yu	Effect of 3-D morphology on ULF waves in the ion foreshock	NASA	$100,320.00
1128-23P	Lin, Yu	On the Origin of the Energetic Electron Microinjections at the High-Latitude Boundary Layers	NASA	$824,711.00
1130-23P	Lin, Yu	Relativistic electrons from the near-Earth reconnection: upper limit of electron acceleration	NASA	$298,377.00

Physics Submitted Proposals FY23

Proposal ID	PI/COPI	Title	Sponsor	Amount Requested
0270-23P	Loch, Stuart	Atomic Data Relevant for Neutron Star Merger Observations (TBD details)	NASA	$689,039.96
0181-23P	Loch, Stuart	Atomic Data for Neutron Star Merger Observations (TBD details...)	NSF	$379,896.82
1047-23P	Maurer, David	MHD Stability & equilibrium in a current-driven stellarator-tokamak hybrid	DOE	$250,000.00
0232-23P	Park, Minseo	Ultrafast Laser Annealing of Amorphous Zinc Oxide-based Thin Films for Flexible Transparent Electronics	NSF	$456,106.00
	Wang, Xueyi	Predictive Models of Discontinuity-Drive Foreshock	NSF	$56,610.00
0657-23P	Wang, Xueyi	Investigating the formation of chorus wave sub-packets and their roles in electron dynamics	University of Texas-Dallas	$597,663.28
0052-23P	Wang, Xueyi	Specifying Properties of Dayside Magnetopause Reconnection from a Machine-Learning Model for the Earth's Cusps	Catholic University	$199,793.84
1140-23P	Wang, Xueyi	Investigating lower hybrid waves in the Earth's inner magnetosphere	University of Texas-Dallas	$377,955.00
1383-23P	Zhao, Hong	CAREER: Understanding the Radiation Belt Electron Fast, Deep Injections in the Inner Magnetosphere	NSF	$683,549.68
1553-23P	Zhao, Hong	CubeSat for Origin of Radiation belt particle Acceleration (tentative)	NASA	$203,471.73
1765-23P	Zhao, Hong	GEM: Contribution of Proton Fast Precipitation Loss to Differential Deep Injections of Energetic Electrons and Protons into the Low L Region	NSF	$435,807.41
TOTAL PROPOSALS:	**76**		**TOTAL AMOUNT REQUESTED:**	**$35,838,691.60**

Outreach and Admin Extramural Grants with New Dollars received FY23

Proposal ID	PI/COPI	Title	Sponsor	Amount	Flow
1820-23	Ewald, Mary Lou	Alabama Science in Motion	Alabama State Dept. of Education (ALSDE)	$466,307.00	STATE OF ALABAMA
0516-23	Ewald, Mary Lou	AUTeach: An implementation of the UTeach STEM teacher preparation program at Auburn University	Alabama Commission on Higher Education-ACHE	$17,500.00	STATE OF ALABAMA
1915-23, 2017-23, 0427-23, 0919-23	Han, Maggie	Rural medicine program	Alabama Dept. of Public Health - ADPH	$216,233.00	STATE OF ALABAMA
0566-23	Jenda, Overtoun	NSF INCLUDES Alliance: The alliance of students with disabilities for inclusion, networking, and transition opportunities in STEM (TAPDINTO-STEM)	NSF	$862,314.40	FEDERAL
2059-22	Jenda, Overtoun M.	Greater Alabama Black Belt Region STEM Initiative Summer Academy 2023	Alabama State Dept. of Education (ALSDE)	$45,000.00	STATE OF ALABAMA
1399-23	Jenda, Overtoun	ACT Summer academy for deaf and hard of hearing high school students	Alabama Dept. of Rehabilitation Services (ADRS)	$58,000.00	STATE OF ALABAMA
0822-23	Jenda, Overtoun	ASU GEAR UP Memorandum of understanding	Alabama State University	$100,000.00	US Dept of Ed-FEDERAL
0937-23	Jenda, Overtoun	College Quest Summer Academy for Blind and Low Visioned High School Students	Alabama Dept. of Rehabilitation Services (ADRS)	$129,354.00	STATE OF ALABAMA
0566-23	McCullough, Brittany	NSF INCLUDES Alliance: The alliance of students with disabilities for inclusion, networking, and transition opportunities in STEM (TAPDINTO-STEM)	NSF	$215,578.60	FEDERAL
			TOTAL:	**$2,110,286.60**	

Outreach and Admin Active Awards FY23

PI/COPI	Sponsor	Title	Start Date	End Date
Ewald, Mary Lou	University of Alabama in Huntsville	UAH-2020-1261-ASEF-24/UN AL HUNTSVILLE/NASA-80NSSC20M0044/AL SCIENCE &ENGINEERING FAIR	9/1/2023	3/22/2025
Ewald, Mary Lou	Alabama State Department of Education	AL DOE-U230045/AL DEPT ED/AL SCIENCE IN MOTION PROGRAM	10/1/2022	9/30/2023
Ewald, Mary Lou	Alabama State Department of Education	AL DOE-U230117/AL ST DEPT ED/AL MATH, SCIENCE & TECHNOLOGY INITIATIVE SITE (AMSTI)	10/1/2022	12/31/2023
Ewald, Mary Lou	Alabama State Department of Education	AL DOE-U220161/AL ST DEPT ED/US DEPT ED/TEACHER IN RESIDENCE	10/1/2021	9/30/2023
Ewald, Mary Lou	Alabama State Department of Education	AL DOE U220134/AL ST DEPT ED/ALA MATH, SCIENCE & TECHNOLOGY INITIATIVE SITE	10/1/2021	12/31/2022
Han, Xiaoying	Alabama Department of Public Health	2/ADPH-RURAL MED PROG/ALA DEPT PUBLIC HLTH/RURAL MEDICINE PROGRAM	7/1/2010	9/30/2024
Jenda, Overtoun	NSF	NSF-EES-2119902/NATL SCI FDN/ALLIANCE OF STUDENTS WITH DISABILITIES FOR INCLUSION, NETWORKING &TRANSITION OPPORTUNITIES IN STEM	8/1/2021	7/31/2027
Jenda, Overtoun	NSF	NSF-DMS-2349684/NATL SCI FDN/RESCH EXPERIENCES FOR UNDERGRADS IN ALGEBRA &DISCRETE MATHEMATICS AT AU	4/15/2024	3/31/2027
Jenda, Overtoun/Alan Wilson	NSF	2/NSF-DUE-1644007/NATL SCI FDN/MAKING TO ADVANCE KNOWLEDGE, EXCELLENCE & RECOGNITION IN STEM	10/1/2016	3/31/2025
Jenda, Overtoun	NSF	NSF-EES-1712692/NATL SCI FDN/GREATER ALA BLACK BELT REGION LSAMP	9/1/2017	8/31/2024
Jenda, Overtoun		MAREN-PANOPTO SYSTEM/MALAWI RESCH &ED NETWORK/SUPPORT PANOPTO TEACHING &LEARNING SYSTEM	8/1/2022	8/1/2024
Jenda,Overtoun/Ash Abebe	NSF	NSF-DMS-2015425/NATL SCI FDN/US-AFRICA COLLABORATIVE RESCH NETWORK IN MATHEMATICAL SCIENCES	7/15/2020	6/30/2024
Jenda, Overtoun	NSF	NSF-DMS-1950563/NATL SCI FDN/REU IN ALGEBRA &DISCRETE MATHEMATICS AT AU	4/1/2020	3/31/2024
Jenda, Overtoun	Alabama State Department of Education	AL DOE-X230102/AL ST DEPT ED/GREATER AL BLACK BELT REGION STEM INITIATIVE SUMMER ACADEMY	10/1/2022	9/30/2023
Jenda, Overtoun	Alabama State University	AL ST UN-ASU GEAR UP/ED-P334A210018/AL STATE UNIV GEAR UP	4/1/2023	9/1/2023
Jenda, Overtoun	Northern Arizona University	NAU-1004670-01/NORTHERN AZ UN/NSF-HRD-2040736/COLLABORATIVE INFRASTRUCTURE FOR EDUCATING STEM UNDERGRADS WHO ARE NEURODIVERSE LEARNERS	12/1/2020	6/30/2023
Mulligan-Guy, Kim/Karen McNeal	NSF	NSF-EEC-1950304/NATL SCI FDN/COLLABORATIVE APPROACHES AMONG SCIENTISTS &ENGINEERS	4/15/2020	3/31/2024

Outreach and Admin Submitted Proposals FY23

Proposal ID	PI/COPI	Title	Sponsor	Amount Requested
ANP	Boyd, Robert S	Rural Medicine Program	ADPH	$72,078.00
0405-23P	Ewald, Mary Lou	Science and Engineering Fair for Alabama Learners (ALL)	NSF	$306,952.00
1641-23P	Ewald, Mary Lou/Brantley/Gilpin-CO-I	NIFA	NIH	$67,364.07
1604-23P	Ewald, Mary Lou	Computer Science Education K-8	State of Alabama	$520,813.00
ANP	Ewald, Mary Lou	AMSTI TIR FY24	State of Alabama	$281,936.00
ANP	Ewald, Mary Lou	ASIM FY24	State of Alabama	$466,307.00
ANP	Ewald, Mary Lou	AMSTI FY 24	State of Alabama	$2,101,263.00
0183-23P	Ewald, Mary Lou	2024 Alabama Science and Engineering Fair	UAH	$5,000.00
1496-22P	Ewald, Mary Lou	AUTeach	UTEACH	$17,500.00
MOD	Han, Maggie	Rural Medicine Program	ADPH	$216,233.00
0623-23P	Jenda, Overtoun	Collaborative Research: S-STEM: Promoting Readiness of Interdisciplinary Scholars for Excellence in the STEM Workforce through a Mentored Community Approach (RISE-STEM)	NSF	$1,629,374.56
ANP	Jenda, Overtoun	ACT Summer academy for deaf and hard of hearing high school students	AL Dept of Rehab Services	$58,000.00
MOU	Jenda, Overtoun	ASU GEAR UP Memorandum of understanding	ASU	$100,000.00

Outreach and Admin Submitted Proposals FY23

Proposal ID	PI/COPI	Title	Sponsor	Amount Requested
MOD	Jenda, Overtoun	College Quest Summer Academy for Blind and Low Visioned High School Students	AL Dept of Rehab Services	$129,354.00
1830-23P	Jenda, Overtoun	REU Site: Research Experiences for Undergraduates in Algebra and Discrete Mathematics at Auburn University	NSF	$286,314.00
0863-23P	Jenda, Overtoun-CO-I	Increasing Academic Achievement in the Alabama Black Belt Region Middle and High Schools	Alabama Americorps State	$61,396.00
ANP	Jenda, Overtoun	Greater Alabama Black Belt Region STEM Initiative Summer Academy 2023	State of Alabama	$45,000.00
1062-23P	Jenda, Overtoun	The Greater Alabama Black Belt Region (GABBR) LSAMP	NSF	$475,236.00
ANP	Jenda, Overtoun	Greater Alabama Black Belt Region STEM Initiative Summer Academy 2024	State of Alabama	$45,000.00
MOD	Jenda, Overtoun/McCullough, Brittany	NSF INCLUDES Alliance: The alliance of students with disabilities for inclusion, networking, and transition opportunities in STEM (TAPDINTO-STEM)	NSF	$2,119,457.00
0588-23P	Mulligan, Kimberly	METALS	NSF	$2,997,970.83
1750-23P	Mulligan, Kimberly	REU: Collaborative Approaches Among Scientists and Engineers	NSF	$482,980.40
TOTAL PROPOSALS:	**22**		**TOTAL AMOUNT REQUESTED:**	**$12,485,528.86**