The 2024 Annual Report of Sponsored Research is available in the pages below in PDF to provide year to year comparison and trends.

All awards/amendments received in 2024 are also in Kuali Research and can be viewed individually in the Award Module (https://byures.kuali.co/dashboard/common-tasks)

Awards may also be viewed collectively in the Kuali Research Reports (https://byures.kuali.co/dashboard/reports). However, there are a few discrepancies on some awards with hierarchy. If you have questions regarding any discrepancies between this PDF report and that which is displayed in Kuali Research, please let us know.

Thank you,

Debbie Silversmith
RAO Associate Director – Sponsored Projects
801-422-2970
debbie_silversmith@byu.edu

RESEARCH ADMINISTRATION OFFICE



Table of Contents

Preface	
The University	4
Information by College or School	13
David O. McKay School of Education	18
Ira A. Fulton College of Engineering	22
College of Family, Home, & Social Sciences	41
College of Fine Arts & Communications	46
College of Humanities	50
J. Reuben Clark Law School	54
College of Life Sciences	57
Marriot School of Business	65
College of Nursing	69
College of Computational, Mathematical, and Physical Sciences	73
Religious Education	84
Non-College Units	87
Compliance Committees	91
Appendix 1	94
Appendix 2	98

Preface

This report covers January 1, 2024, to December 31, 2024.

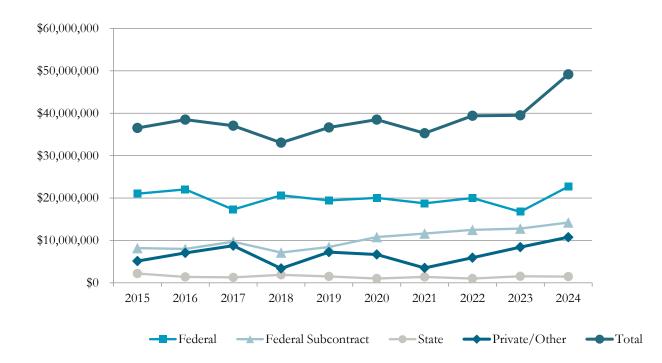
Included are a number of activities that are carried out by the Research Administration Office (RAO).

- Reports of Sponsored Projects: Sponsored projects at BYU are those funded by external sources through RAO. They are largely research projects, but many include programs that are designed to develop or support instructional or service activities. Support for creative activities such as performance, artistic creations, etc., may also come through RAO.
- Administrative Activities in Support of Research and Creative Activities: RAO supports three university committees which oversee compliance with university, state, and federal regulations.



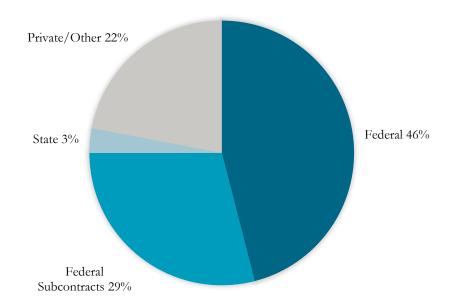
External Research Funding

Grants/Contracts								
Year	Federal	Federal Subcontract	State	Private/Other	Total	%Federal		
2015	\$21,015,987	\$8,205,836	\$2,192,841	\$5,115,501	\$36,530,165	80%		
2016	\$22,056,396	\$7,987,588	\$1,411,764	\$7,051,367	\$38,507,115	78%		
2017	\$17,293,839	\$9,715,815	\$1,290,090	\$8,756,281	\$37,056,025	73%		
2018	\$20,636,221	\$7,147,550	\$1,876,552	\$3,386,457	\$33,046,780	84%		
2019	\$19,445,058	\$8,469,044	\$1,502,620	\$7,231,977	\$36,648,699	76%		
2020	\$20,024,907	\$10,794,493	\$1,020,133	\$6,672,388	\$38,511,921	80%		
2021	\$18,753,261	\$11,614,913	\$1,389,487	\$3,526,316	\$35,283,976	86%		
2022	\$20,012,918	\$12,477,754	\$1,004,998	\$5,917,122	\$39,412,792	82%		
2023	\$16,757,384	\$12,790,861	\$1,564,279	\$8,403,643	\$39,516,167	75%		
2024	\$22,689,298	\$14,225,170	\$1,488,872	\$10,766,580	\$49,169,920	75%		



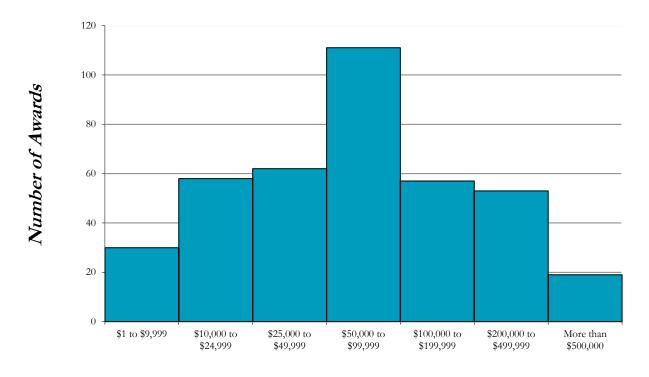
External Funds by Source-2024

Source	Amount	% of Total
Federal	\$22,689,298	46%
Federal Subcontracts	\$14,225,170	29%
State	\$1,488,872	3%
Private/Other	\$10,766,580	22%
Total Funding	\$49,169,920	100%



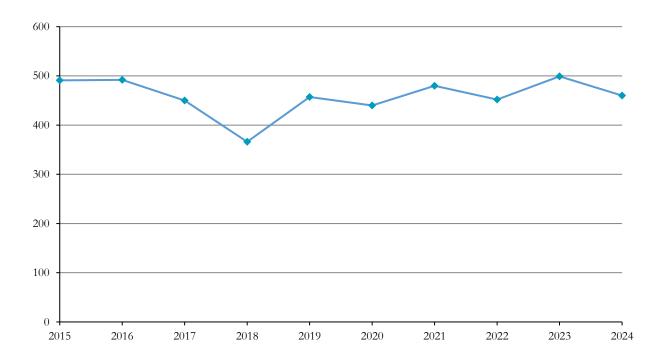
Awards by Amount-2024

Dollar Amount Categories	# of Awards	% of Total Awards by #	\$ Awards	% of Total Awards by \$ Amount
\$1 to \$9,999	30	7.6%	\$186,902	0.4%
\$10,000 to \$24,999	58	14.9%	\$944,741	1.9%
\$25,000 to \$49,999	62	15.9%	\$2,254,238	4.6%
\$50,000 to \$99,999	111	28.5%	\$8,015,752	16.3%
\$100,000 to \$199,999	57	14.6%	\$7,891,146	16.1%
\$200,000 to \$499,999	53	13.6%	\$16,736,086	34.0%
More than \$500,000	19	4.9%	\$13,141,055	26.7%
Totals	390	100%	\$49,169,920	100%



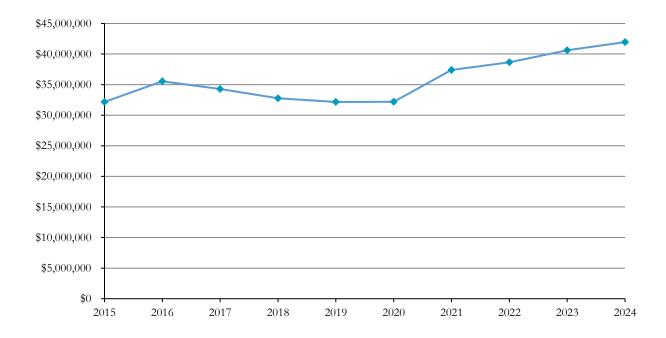
Dollar Amount Categories

Proposals Submitted



Total Award Expenditures

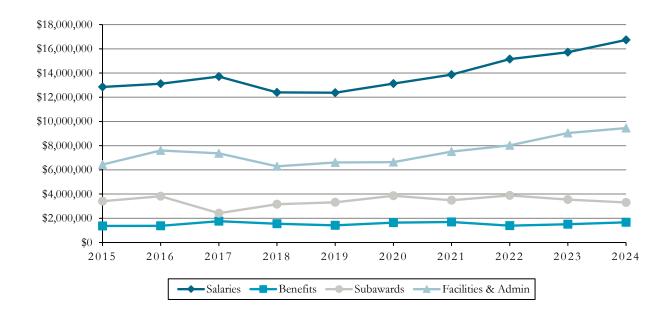
Year	Total Expenditures
2015	\$32,177,342
2016	\$35,537,915
2017	\$34,278,900
2018	\$32,772,780
2019	\$32,177,733
2020	\$32,182,706
2021	\$37,401,138
2022	\$38,647,126
2023 2024	\$40,618,606 \$41,955,537
2024	Ψτ1,/33,337

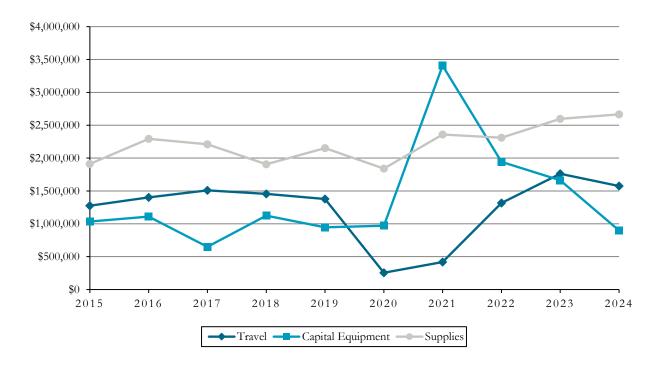


2024 Award Expenditures by Category

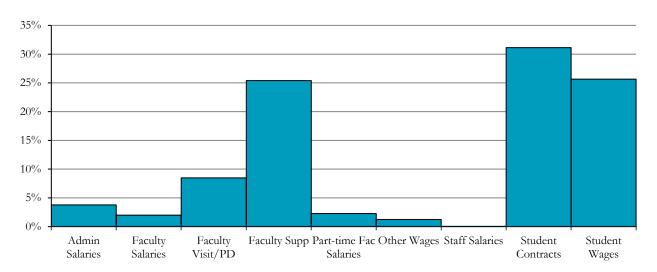
Personnel Costs	Amoun
Salaries & Wages	
Admin Salaries	\$531,114
Faculty Salaries	231,994
Visiting Faculty/Post Doctoral Researcher Salaries	1,741,138
Faculty Spring Summer/Supplemental Salaries	3,689,319
Other Wages	402,68
Part-time Faculty Salaries	422,12
Staff Salaries	30,472
Student Contracts	4,923,20
Student Wages	4,758,37
Total Salaries & Wages	16,730,42
Fringe Benefits	1,661,68
Total Personnel Cost	18,392,10
Total Tersonnet Cost	10,372,10
Other Expenditures	
Access Equipment	16,36
Advertising and Promotion	1,63
Capital Equipment	898,84
Conference & Symposium Costs	11,46
Consultants	352,54
Contract Services	1,408,73
Employee Development/Training	65,65
Equipment Maintenance	83,25
Facilities & Administration	9,450,24
Facilities Remodel	12,92
Hosting, Food, Entertainment	33,45
Non-Capital Equipment	296,02
Participant Support	571,34
Postage and Mailing	24,71
Printing and Copying	6,07
Program Income	0,07
Purchase Discounts Earned	
	89,40
Rental Expense Research Fellowships	14,28
1	· ·
Research Publications Costs	50,71
Software Acquisitions/Support	19,57
Software Maintenance	21,35
Student Aid	2,589,04
Subawards	3,299,82
Supplies	2,665,02
Telecommunications	4,86
Travel	1,575,06
Uniforms/Costumes/Laundry	1,01
Total Other Expenditures	\$23,563,43
T-4-1 D	¢41 055 52
Total Research Expenditures	\$41,955,53

Award Dollars Expended

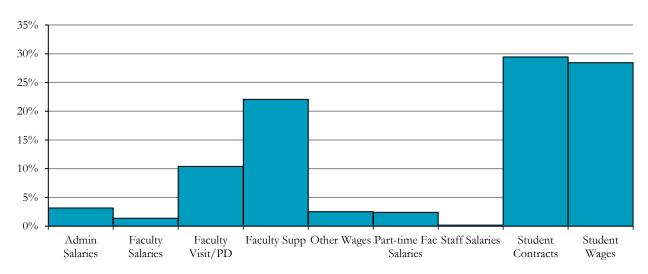


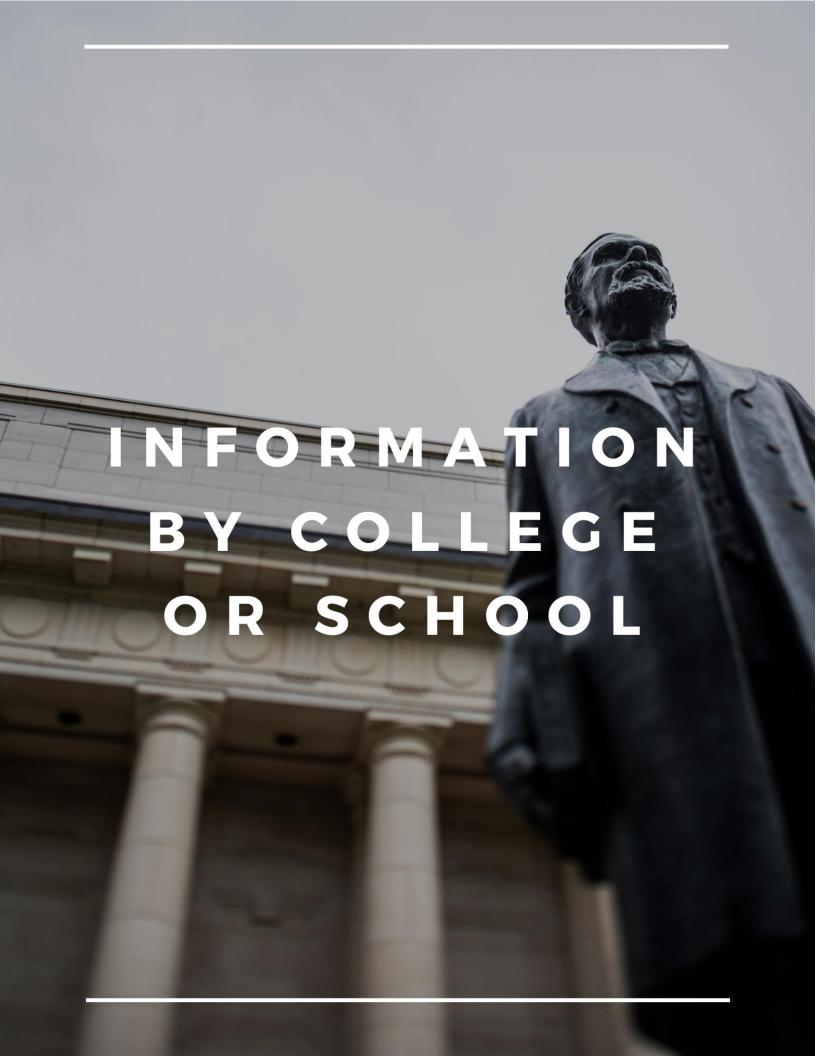


2023 Salaries and Wages Expenditures Total: \$15,713,909



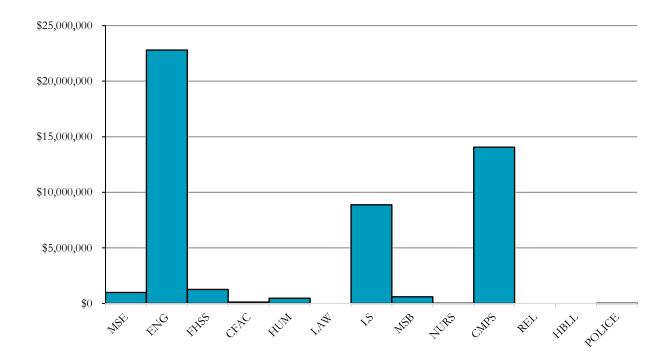
2024 Salaries and Wages Expenditures Total: \$16,730,420



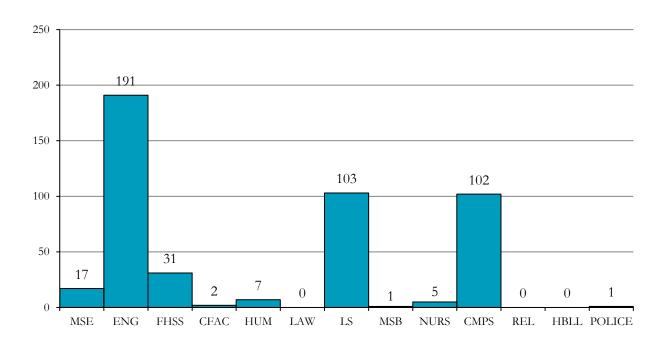


Total Awards by College

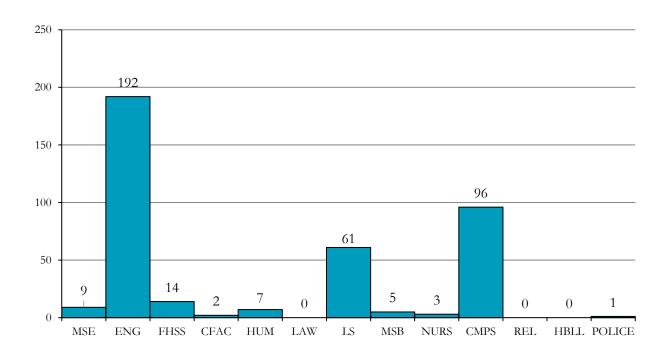
College or School	Total
David O. McKay School of Education Ira A. Fulton College of Engineering College of Family, Home & Social Sciences College of Fine Arts & Communications College of Humanities J. Reuben Clark Law School College of Life Sciences Marriott School of Business College of Nursing College of Computational, Mathematical, and Physical Sciences Religious Education Harold B. Lee Library BYU Police	\$984,284 \$22,800,602 \$1,255,420 \$124,200 \$466,934 \$0 \$8,871,908 \$592,672 \$17,550 \$14,053,632 \$0 \$0 \$2,718
University Total	\$49,169,920



Number of Proposals-2024



Number of Awards-2024



Total Awards by College and Department

College and Department		Amount
David O. McKay School of Education		
Center for Improvement of Teacher Education & Schooling		\$525,371
Communication Disorders		\$0
Counseling, Psychology, & Special Education		\$341,035
Education Leadership & Foundations		\$94,478
Instructional Psychology & Technology		\$8,400
Teacher Education		\$15,000
	TOTAL	\$984,284
<u>Ira A. Fulton College of Engineering</u>		
Chemical Engineering		\$3,740,389
Civil & Construction Engineering		\$4,505,095
Electrical & Computer Engineering		\$6,796,413
Manufacturing Engineering		\$1,849,184
Mechanical Engineering		\$5,909,521
	TOTAL	\$22,800,602
College of Family, Home, & Social Sciences		
Anthropology		\$18,000
Economics		\$54,313
Geography		\$301,581
History		\$614,059
Museum of Peoples & Cultures		\$0
Political Science		\$0
Psychology		\$25,094
School of Family Life		\$224,014
School of Social Work		\$18,359
Sociology		\$0
	TOTAL	\$1,255,420
College of Fine Arts & Communications		. , ,
Art		\$0
Bravo		\$0
Communications		\$0
Dance		\$0
Design		\$0
Museum of Art		\$124,200
School of Music		\$0
Theatre & Media Arts		\$0
	TOTAL	\$124,200
College of Nursing	TOTAL	\$17,550

College of Humanities		
Asian & Near East Languages		\$83,664
Comparative Arts & Letters		\$383,270
English		\$0
French & Italian		\$0
German & Russian		\$0
Linguistics		\$0
Philosophy		\$0
Spanish & Portuguese		\$0
	TOTAL	\$466,934
College of Life Sciences		,,
Biology		\$3,278,634
Cell Biology & Physiology		\$2,037,490
Exercise Science		\$211,780
Microbiology & Molecular Biology		\$757,883
Monte Bean Life Science Museum		\$0
Nutrition, Dietetics, & Food Science		\$185,468
Plant & Wildlife Sciences		\$2,242,304
Public Health		\$158,350
	TOTAL	\$8,871,909
Marriott School of Business		
Ballard Center for Social Impact		\$0
Experience Design & Management		\$0
Finance & Managerial Economics		\$0
Global Management Center		\$290,466
Information Systems		\$0
Management		\$80,780
Marketing & Global Supply Chain		\$0
Romney Institute of Public Management		\$221,426
School of Accountancy		\$0
	TOTAL	\$592,672
Religious Education		
Ancient Scriptures		\$0
Church History & Doctrine		\$0
	TOTAL	\$0
College of Computational, Mathematical, and Physical Sciences		
Chemistry & Biochemistry		\$7,401,897
Computer Science		\$462,133
Geology		\$290,225
Mathematics		\$806,545
Mathematics Education		\$1,034,246
Physics & Astronomy		\$4,058,586
Statistics		\$0
	TOTAL	\$14,053,632
BYU Police	TOTAL	\$2,718
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Grand Total \$49,169,920

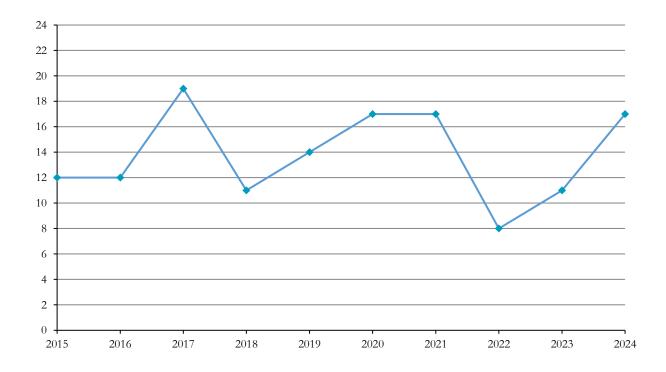


Summary by Departments

Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards*	Dollars Awarded*
Center for Improvement of Teacher Education & Schooling	3	6	4	\$525,371
Communication Disorders	0	0	0	\$0
Counseling, Psychology, & Special Education	2	3	2	\$341,035
Educational Leadership & Foundations	1	1	1	\$94,478
Instructional Psychology & Technology	3	4	1	\$8,400
Teacher Education	2	3	1	\$15,000
TOTALS	11	17	9	\$984,284

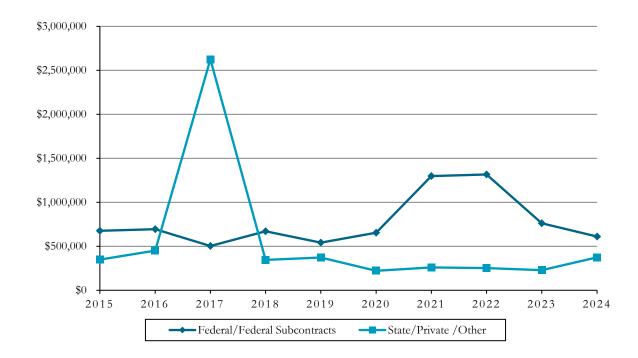
^{*}Number of Awards are counted by PI only, while total Dollars Awarded is split between all researchers

Proposal Submissions



Awards by Sources

	Grants/Co	ontracts	
Year	Federal/Federal	State/Private	Total
	Subcontracts	/Other	
2015	\$675,327	\$348,440	\$1,023,767
2016	\$693,993	\$449,966	\$1,143,959
2017	\$503,548	\$2,624,841	\$3,128,389
2018	\$671,011	\$345,902	\$1,016,913
2019	\$541,274	\$372,300	\$913,574
2020	\$654,922	\$220,619	\$875,541
2021	\$1,297,390	\$259,499	\$1,556,889
2022	\$1,316,472	\$252,400	\$1,568,872
2023	\$762,272	\$299,216	\$1,061,488
2024	\$610,184	\$374,100	\$984,284



David O. McKay School of **Education 2024 Awards**

Researcher	<u>Role</u>	<u>Sponsor</u>	<u>Prime</u> Sponsor	<u>Title</u>	Beg Date	End Date	Account	Amount
Center for Im	proveme	nt of Teacher E	d. & Schooling	1				
Caldarella, Paul	PI	University of Kansas	Department of Education	Initial Efficacy Evaluation of the CW-FIT Middle School Program: Improving Academic Engagement	Jan-21	Jun-25	Ro302988	\$174,671
Flox, Cally	PI	Utah State Board of Education		The Native American Curriculum Initiative (NACI)	Jul-23	Jun-24	R0402408	\$30,000
Flox, Cally	PI	Utah State Board of Education		Cultures of Thinking and Creativity in Utah Schools	Jul-23	Jun-24	R0402409	\$60,000
Flox, Cally	PI	Utah State Board of Education		BTS Arts IHE	Jul-24	Jun-25	R0402412	\$260,700
Counseling, P	sycholog	y, & Special Ed	ucation					
Gabrielsen, Terisa	PI	Utah State Board of Education	Department of Education	STEPPING UP FOR STUDENTS: MEETING ESCALATING CHALLENGES	Jul-24	Jun-26	R0303242	\$170,385
Morris, Jared	PI	Utah State Board of Education	Department of Education	FUTURE-SPED: (Fostering Undergraduate Talent for Unique and Rewarding Education in Special Education Development BYU Personnel USBE SPED Preparation Grant	Jul-24	Jun-26	Ro303259	\$170,650
Education Le	adership	& Foundations						
Hallam, Pamela	PI	University of Iowa	National Institutes of Health	Protecting Teacher's Voices: Investigating Risk Factors, Conducting Analysis	May-24	Apr-25	R0303221	\$46,026
Hallam, Pamela	COI	University of Iowa	National Institutes of Health	Protecting Teacher's Voices: Investigating Risk Factors, Conducting Analysis	May-24	Apr-25	R0303222	\$48,452
Instructional	Psycholo	ogy & Technolo	gy					
Rich, Peter	PI	Westminster University	Google Inc.	Updated Landscape Report and Plan for Utah CS	Sep-24	Aug-25	AW02014	\$8,400
Teacher Educ	ation							
Jensen, Bryant	PI	The Garbett Family Foundation		Supporting Teacher Collaborative Learning to Enact Equitable Math Teaching in Rural Mexico	Jan-24	Dec-24	R0502407	\$15,000

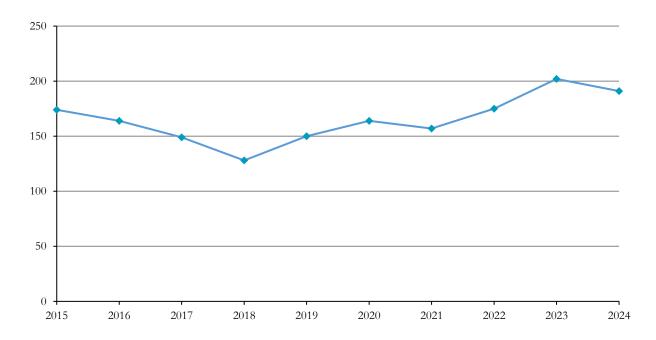


Summary by Departments

Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards*	Dollars Awarded*
Chemical Engineering	10	28	21	\$3,740,389
Civil & Construction Engineering	13	28	29	\$4,505,095
Electrical & Computer Engineering	22	68	75	\$6,796,413
Manufacturing Engineering	6	11	11	\$1,849,184
Mechanical Engineering	24	56	56	\$5,909,521
TOTALS	75	191	192	\$22,800,602

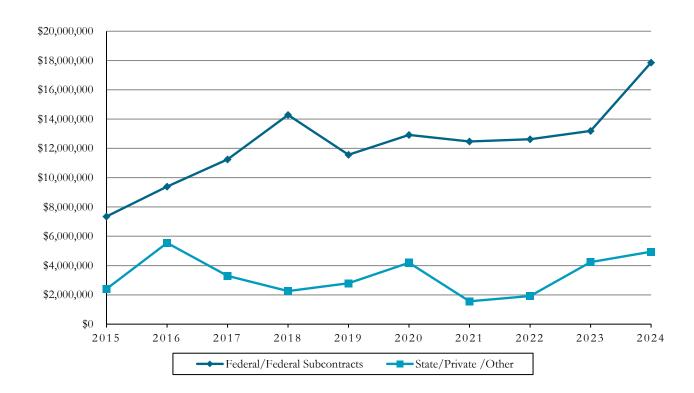
^{*}Number of Awards are counted by PI only, while total Dollars Awarded is split between all researchers

Proposal Submissions



Awards by Sources

	Grants/Co	ontracts	
Year	Federal/Federal	State/Private	Total
	Subcontracts	/Other	
2015	\$7,345,708	\$2,397,665	\$9,743,373
2016	\$9,391,742	\$5,546,423	\$14,938,165
2017	\$11,246,406	\$3,294,087	\$14,540,493
2018	\$14,289,851	\$2,259,118	\$16,548,969
2019	\$11,570,059	\$2,794,877	\$14,364,936
2020	\$12,915,725	\$4,196,130	\$17,111,855
2021	\$12,469,618	\$1,559,166	\$14,028,784
2022	\$12,626,189	\$1,919,501	\$14,545,690
2023	\$13,188,599	\$4,147,586	\$17,336,185
2024	\$17,860,817	\$4,939,785	\$22,800,602



Ira A. Fulton College of **Engineering 2024 Awards**

Researcher	<u>Role</u>	Sponsor	<u>Prime</u> <u>Sponsor</u>	<u>Title</u>	Beg Date	End Date	Account	<u>Amount</u>
Chemical En	gineeri	ng						
Hedengren, John	PI	Pacific Northwest National Laboratory	Department of Energy	Advanced Machine Learning Techniques for Enhanced High-Level Waste Glass Optimization and Real- Time Formulation	Sep-24	Sep-28	R0303251	\$88,478
Hedengren, John	PI	Takeda Development Center Americas, Inc.		Optimized Pharmaceutical Manufacturing: Generate AI-Driven MPC for Crystallization Processes	Aug-24	Aug-26	R0602738	\$119,990
Hedengren, John	COI	Savannah River National Lab	Department of Energy	Optimizing Electrorefining with Machine Learning: Computational and Experimental Methodology Development	Dec-24	Sep-25	AW02011	\$65,329
Knotts, Tommy	PI	American Institute of Chemical Engineers		DIPPR 801	Jan-18	Dec-24	Ro602557	\$405,917
Knotts, Tommy	PI	American Institute of Chemical Engineers		DIPPR 801	Jan-18	Dec-25	Ro602557	\$413,447
Lignell, David	PI	USDA U.S. Forest Service		From Fuel to Smoke: Measuring and Modeling the Chemistry and Composition of a Flame from a Prescribed Fire and Its Near-Field Plume	Jul-24	Sep-27	R0202613	\$41,157
Lignell, David	PI	USDA U.S. Forest Service		From Fuel to Smoke: Measuring and Modeling the Chemistry and Composition of a Flame from a Prescribed Fire and Its Near-Field Plume	Jul-24	Sep-27	R0202613	\$43,658
Memmott, Matthew	PI	Department of Energy		Development and Validation of a Dual-Purpose Instrument for On-line Monitoring of Molten Salt Composition and Thermal Behavior	Aug-24	Sep-27	Ro202609	\$271,999
Memmott, Matthew	PI	Department of Energy		Development and Validation of a Dual-Purpose Instrument for On-line Monitoring of Molten Salt Composition and Thermal Behavior	Aug-24	Sep-27	R0202610	\$33,975
Rappleye, Devin	PI	Department of Energy		Supplement to Two-Step Chloride Volatility Process for Reprocessing Used Nuclear Fuel from Advanced Reactors	Mar-22	Mar-25	Ro202606	\$26,583
Rappleye, Devin	PI	Savannah River National Lab	Department of Energy	Technical Exchange on Pyrochemical Processing	Jan-21	Sep-24	Ro303046	\$59,447
Rappleye, Devin	PI	TechSource, Inc.	Department of Energy	Pyrochemical and Soft Matter Theory Research	Jan-24	Dec-25	R0303208	\$150,000
Rappleye, Devin	PI	Lawrence Livermore National Labs	Department of Energy	Follow-on - Development of In-Situ Chlorine Generation for Metal Purification	Aug-24	Sep-25	Ro303244	\$161,338

Rappleye, Devin	PI	HiFunda LLC	Department of Energy	In Situ Electrochemical Sensor for Oxygen Determination in High- Temperature Molten Salts	Jul-24	Apr-26	Ro303252	\$49,999
Rappleye, Devin	PI	Lawrence Livermore National Labs	Department of Energy	Refinement of the Automation of Actinide Electrorefining Using Surrogates	Sep-24	Sep-25	R0303258	\$225,569
Rappleye, Devin	PI	Materion Corporation		Feasibility Study of Scandium Metal Production from Domestic Sources	Apr-24	Mar-25	R0602731	\$82,604
Rappleye, Devin	PI	Savannah River National Lab	Department of Energy	Optimizing Electrorefining with Machine Learning: Computational and Experimental Methodology Development	Dec-24	Sep-25	AW02011	\$65,329
Tree, Doug	PI	National Science Foundation		CAREER: Evaluating Theories of Polymer Crystallization by Directly Calculating the Nucleation Barrier in a Polymer Melt	Mar-24	Feb-29	R0112531	\$212,207
Tree, Doug	PI	National Science Foundation		REU Supplement: CAREER: Evaluating Theories of Polymer Crystallization by Directly Calculating the Nucleation Barrier in a Polymer Melt	Mar-24	Feb-1	R0112551	\$8,000
Tree, Doug	COI	TechSource, Inc.	Department of Energy	Pyrochemical and Soft Matter Theory Research	Jan-24	Dec-25	Ro303208	\$150,000
Wheeler, Dean	PI	Wasatch Ionics LLC	United States Special Operations Command	Phase I SBIR: Soldier-Portable Batteries Based on Safe High-Energy- Density Rechargeable Lithium-Oxygen Chemistry	Aug-23	Mar-24	R0303211	\$51,000
Wheeler, Dean	PI	Wasatch Ionics LLC	Army	Phase II STTR: Development of High Energy Density Reserve Lithium- Oxygen Batteries with Integrated Chemical Oxygen Generation	Jul-24	Jul-25	R0303270	\$172,500
Wheeler, Dean	PI	Omnitek Partners LLC	National Aeronautics and Space Administration	Phase I STTR: High-Frequency AC Heating of Batteries in Extreme Cold Environments	Aug-24	Sep-25	R0303274	\$22,500
Wilding, Vincent	COI	American Institute of Chemical Engineers		DIPPR 801	Jan-18	Dec-24	Ro602557	\$405,917
Wilding, Vincent	COI	American Institute of Chemical Engineers		DIPPR 801	Jan-18	Dec-25	Ro602557	\$413,447
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Ames, Dan	COI	National Aeronautics and Space Administration		Advancing the NASA GEOGloWS Toolbox for Regional Water Resources Management and Decision Support	Apr-22	Apr-25	R0162044	\$37,966
Ames, Dan	COI	National Aeronautics and Space Administration		Advancing the NASA GEOGloWS Toolbox for Regional Water Resources Management and Decision Support	Apr-22	Apr-25	R0162044	\$48,872
Ames, Dan	COI	National Aeronautics and Space Administration		Advancing the NASA GEOGloWS Toolbox for Regional Water Resources Management and Decision Support	Apr-22	Apr-25	R0162044	\$24,436
Ames, Dan	PI	The University of Alabama	National Oceanic & Atmospheric Administration	National Cyberinfrastructure Framework for Engaging the Hydrologic Community (NCF) - CIROH	Aug-22	Jul-25	R0303092	\$151,643
Ames, Dan	PI	The University of Alabama	National Oceanic & Atmospheric Administration	CIROH: The NWM Research Apps Portal - A One-Stop-Shop Catalog of R2O Web Applications	Jun-23	May-25	R0303184	\$268,554

Ames, Dan	PI	Aquaveo LLC	National Science Foundation	POSE: Phase II: Establishing an Open- Source Ecosystem for Tethys Platform	Sep-23	Sep-24	R0303207	\$139,322
Ames, Dan	PI	The University of Alabama	National Oceanic & Atmospheric Administration	Advancing Community NextGen and NextGen In A Box (NGIAB) Paving the Pathway to Operations	Jul-24	Jun-25	R0303265	\$85,000
Guthrie, Spencer	COI	Utah Department of Transportation		Laboratory Evaluation of Fresh and Hardened Concrete Comprising Portland-Pozzolan Cement	Mar-23	Oct-24	R0402397	\$5,005
Hotchkiss, Rollin	COI	National Aeronautics and Space Administration		Integrated Global and Local Hydrologic Models for Flood Early Warning and Water Resources Management	Nov-22	Nov-25	R0162045	\$120,888
Hotchkiss, Rollin	PI	Department of Homeland Security		Low-head Dam Public Safety Assessment Tools	Sep-24	Sep-26	R0202623	\$349,999
Jones, Norm	COI	National Aeronautics and Space Administration		Advancing the NASA GEOGloWS Toolbox for Regional Water Resources Management and Decision Support	Apr-22	Apr-25	R0162044	\$37,966
Jones, Norm	COI	National Aeronautics and Space Administration		Advancing the NASA GEOGloWS Toolbox for Regional Water Resources Management and Decision Support	Apr-22	Apr-25	R0162044	\$48,872
Jones, Norm	COI	National Aeronautics and Space Administration		Advancing the NASA GEOGloWS Toolbox for Regional Water Resources Management and Decision Support	Apr-22	Apr-25	R0162044	\$24,436
Jones, Norm	COI	The University of Alabama	National Oceanic & Atmospheric Administration	National Cyberinfrastructure Framework for Engaging the Hydrologic Community (NCF) - CIROH	Aug-22	Jul-25	R0303092	\$151,643
Jones, Norm	PI	The University of Alabama	National Oceanic & Atmospheric Administration	CIROH: Advancing Science to Better Characterize Drought and Groundwater-Driven Low-Flow Conditions in NOAA and USGS National-Scale Models	Jun-23	May-25	R0303191	\$102,135
Jones, Norm	PI	The University of Alabama	National Oceanic & Atmospheric Administration	Improved Hydrologic Prediction Services for Resilience with GEOGloWS	Apr-24	Mar-25	R0303247	\$154,110
Judd, Johnn	PI	Metal Building Manufacturers Association		Strength and stiffness of flange brace assemblies	Dec-24	Feb-26	R0502430	\$98,714
Macfarlane, Gregory	PI	Utah Department of Transportation		Effectiveness and Safety of Temporary Portable Rumble Strips (TPRS)	Oct-24	Nov-25	R0402419	\$29,996
Nelson, Jim	PI	National Aeronautics and Space Administration		Advancing the NASA GEOGloWS Toolbox for Regional Water Resources Management and Decision Support	Apr-22	Apr-25	R0162044	\$37,966
Nelson, Jim	PI	National Aeronautics and Space Administration		Advancing the NASA GEOGloWS Toolbox for Regional Water Resources Management and Decision Support	Apr-22	Apr-25	R0162044	\$48,872
Nelson, Jim	PI	National Aeronautics and Space Administration		Advancing the NASA GEOGloWS Toolbox for Regional Water Resources Management and Decision Support	Apr-22	Apr-25	R0162044	\$24,436
Nelson, Jim	PI	National Aeronautics and Space Administration		Integrated Global and Local Hydrologic Models for Flood Early Warning and Water Resources Management	Nov-22	Nov-25	R0162045	\$120,888
Nelson, Jim	COI	The University of Alabama	National Oceanic & Atmospheric Administration	National Cyberinfrastructure Framework for Engaging the Hydrologic Community (NCF) - CIROH	Aug-22	Jul-25	R0303092	\$151,643

Nelson, Jim	PI	The University of Alabama	National Oceanic & Atmospheric Administration	CIROH: A Collaborative Approach to Develop Comprehensive FIM Data, Models, and Methods with Emphasis on Transportation Infrastructure supported by Bipartisan Infrastructure Law (BIL) funding	Jun-23	May-25	Ro3o3177	\$426,243
Nelson, Jim	COI	The University of Alabama	National Oceanic & Atmospheric Administration	Improved Hydrologic Prediction Services for Resilience with GEOGloWS	Apr-24	Mar-25	Ro303247	\$154,110
Nelson, Jim	PI	World Meteorological Organization		Improving monitoring and hydrological forecasting operational capabilities in Togo	Jan-22	Dec-23	R0570034	\$22,329
Nelson, Jim	PI	World Meteorological Organization		GEOGLOWS Implementation: Hispaniola, Cuba, Jamaica, Trinidad and Tobago in the framework of HydroSOS	Oct-24	Sep-26	R0570041	\$69,249
Richards, Paul	PI	American Institute of Steel Construction		Experimental Validation of SMF Connections at Roof Joints	Oct-24	Jul-26	R0502426	\$50,000
Rollins, Kyle	PI	US Geological Survey		Improvement of Probabilistic Liquefaction Triggering Curves for Gravelly Soil	May-24	Apr-25	R0202607	\$101,675
Schultz, Grant	PI	Utah Department of Transportation		EVALUATING THE INTERACTION OF THE TRANSIT SYSTEM ON SAFETY IN UTAH	Sep-24	Aug-26	R0402416	\$74,999
Schultz, Grant	PI	Utah Department of Transportation	Utah Department of Transportation	A PEER EVALUATION OF SAFETY AT SIGNALIZED INTERSECTIONS IN UTAH	Sep-24	Aug-26	R0402417	\$49,997
Schultz, Grant	COI	Utah Department of Transportation		Effectiveness and Safety of Temporary Portable Rumble Strips (TPRS)	Oct-24	Nov-25	R0402419	\$29,996
Schultz, Grant	PI	Utah Department of Transportation		Implementing the Safe System Approach for Speed Management	Oct-24	Aug-26	R0402420	\$65,000
Shepherd, Kendrick	PI	National Science Foundation		REU Supplement: CRII: OAC: Improved Cyberinfrastructure Usage through High-Fidelity Isogeometric Volumetric Spline Model Generation	Sep-23	Aug-25	R0112540	\$16,000
Shepherd, Kendrick	PI	University of Utah	National Aeronautics and Space Administration	High-Order Computational Methods for Analysis-Informed Aircraft Designs	May-24	May-25	R0303236	\$25,000
Shepherd, Kendrick	PI	IERUS Technologies, Inc.	Army	High-Fidelity Isogeometric Aerothermoelastic Analyses of Hypersonic Behavior	Dec-24	May-25	AW02003	\$62,000
Sonntag, Darrell	PI	Utah Governor's Office of Economic Opportunity		Heavy-duty Truck Emissions Monitoring at a Utah Distribution Center	Nov-23	Jun-26	R0402406	\$130,625
Sorensen, Taylor	PI	Utah Department of Transportation		Laboratory Evaluation of Fresh and Hardened Concrete Comprising Portland-Pozzolan Cement	Mar-23	Oct-24	R0402397	\$5,005
South, Andrew	COI	The University of Alabama	National Oceanic & Atmospheric Administration	Improved Hydrologic Prediction Services for Resilience with GEOGloWS	Apr-24	Mar-25	Ro303247	\$154,110
Sowby, Robert	PI	Central Utah Water Conservancy District		Reliable Supply for Utah's Public Water Systems (CUWCD Proposal)	Jul-22	Jun-25	R0402385	\$5,000
Sowby, Robert	PI	Utah Department of Natural Resources		Reliable Supply for Utah's Public Water Systems (DWRe Proposal)	Jul-22	Jun-25	R0402389	\$5,000
Sowby, Robert	PI	State of Utah Energy Development		Power Resilience in Utah's Water Sector	Jun-24	Jun-26	R0402411	\$30,000
Williams, Gus	COI	National Science Foundation		IUCRC Phase I Brigham Young University: Center for Autonomous Air Mobility and Sensing (CAAMS)	Apr-22	Mar-27	R0112485	\$18,717

Williams, Gus	COI	National Science Foundation		IUCRC Phase I Brigham Young University: Center for Autonomous Air Mobility and Sensing (CAAMS)	Apr-22	Mar-27	R0112485	\$18,427
Williams, Gus	COI	National Science Foundation		IUCRC Phase I Brigham Young University: Center for Autonomous Air Mobility and Sensing (CAAMS)	Apr-22	Mar-27	R0112494	\$3,200
Williams, Gus	COI	National Aeronautics and Space Administration		Advancing the NASA GEOGloWS Toolbox for Regional Water Resources Management and Decision Support	Apr-22	Apr-25	R0162044	\$37,966
Williams, Gus	COI	National Aeronautics and Space Administration		Advancing the NASA GEOGloWS Toolbox for Regional Water Resources Management and Decision Support	Apr-22	Apr-25	R0162044	\$48,872
Williams, Gus	COI	National Aeronautics and Space Administration		Advancing the NASA GEOGloWS Toolbox for Regional Water Resources Management and Decision Support	Apr-22	Apr-25	R0162044	\$24,436
Williams, Gus	COI	Department of Homeland Security		Low-head Dam Public Safety Assessment Tools	Sep-24	Sep-26	R0202623	\$349,999
Williams, Gus	COI	The University of Alabama	National Oceanic & Atmospheric Administration	National Cyberinfrastructure Framework for Engaging the Hydrologic Community (NCF) - CIROH	Aug-22	Jul-25	R0303092	\$151,643
Williams, Gus	COI	The University of Alabama	National Oceanic & Atmospheric Administration	CIROH: Advancing Science to Better Characterize Drought and Groundwater-Driven Low-Flow Conditions in NOAA and USGS National-Scale Models	Jun-23	May-25	R0303191	\$102,135
Williams, Gus	COI	Central Utah Water Conservancy District		Reliable Supply for Utah's Public Water Systems	Jul-22	Jun-25	R0402385	\$5,000
Williams, Gus	COI	Utah Department of Natural Resources		Reliable Supply for Utah's Public Water Systems	Jul-22	Jun-25	R0402389	\$5,000

Electrical and Computer Engineering

Broom tour until		outer Engineering						
Allen, Steven	PI	National Institutes of Health		Iron Based Coupling Media (IBCM) for MRI-guided Transcranial Ultrasound Surgeries	Sep-22	Jun-25	R0102122	\$446,451
Allen, Steven	PI	University of Utah	National Institutes of Health	Feasibility of Transcranial Histotripsy using a Hemispherical Transducer	Apr-22	Dec-24	R0303082	\$15,811
Beard, Randy	PI	National Science Foundation		IUCRC Phase I Brigham Young University: Center for Autonomous Air Mobility and Sensing (CAAMS)	Apr-22	Mar-27	R0112485	\$18,717
Beard, Randy	PI	National Science Foundation		IUCRC Phase I Brigham Young University: Center for Autonomous Air Mobility and Sensing (CAAMS)	Apr-22	Mar-27	R0112485	\$18,427
Beard, Randy	PI	National Science Foundation		IUCRC Phase I Brigham Young University: Center for Autonomous Air Mobility and Sensing (CAAMS)	Apr-22	Mar-27	R0112494	\$3,200
Beard, Randy	PI	University of Colorado, Boulder	National Science Foundation	IUCRC Phase I University of Colorado Boulder: Center for Autonomous Air Mobility and Sensing (CAAMS) - (Managing Director Funding)	Apr-22	Mar-27	R0303091	\$217,004
Beard, Randy	PI	Utopia Compression	Air Force	Long Range Passive Ranging and Collision Avoidance for UAS	Nov-23	Oct-25	R0303213	\$330,000
Beard, Randy	PI	Georgia Institute of Technology	Department of Defense	MATCHES: Multi-Agent Teaming for Cooperative Hypersonic Engagement and Strike	Oct-23	Mar-26	Ro303223	\$224,337
Beard, Randy	PI	CAAMS Industry Memberships		Safe and efficient take-off and landing algorithms for winged-VTOL aircraft	Aug-22	Mar-27	R0602723	\$20,000

Beard, Randy	PI	CAAMS Industry Memberships		GPS denied navigation using signals of opportunity from Satellites and Cell Towers	Aug-22	Mar-27	Ro602725	\$20,000
Camacho, Ryan	PI	University of Arizona	National Science Foundation	Integrated Photonics tools for NSF Engineering Research Center for Quantum Networks (CQN)	Sep-20	Aug-25	R0303261	\$96,309
Chiang, Shiuh-hua	PI	Purdue University	Army	SCALE - Microelectronics Workforce Development Project for Radiation Hardness	Apr-24	Mar-25	Ro303234	\$6,049
Chiang, Shiuh-hua	PI	Purdue University	Army	SCALE - Microelectronics Workforce Development Project for Radiation Hardness	Apr-24	Mar-25	Ro303234	\$31,452
Goeders, Jeff	PI	Office of Naval Research		FPGA Bitstream-level Equivalence Checking: Securing the FPGA "Digital Fab"	Aug-22	Jul-25	R0202577	\$55,000
Goeders, Jeff	PI	Office of Naval Research		FPGA Bitstream-level Equivalence Checking: Securing the FPGA "Digital Fab"	Aug-22	Jul-25	Ro202577	\$42,231
Goeders, Jeff	COI	Pennsylvania State University	Defense Threat Reduction Agency	Interaction of Ionizing Radiation with Matter, University Research Alliance (IIRM-URA)	Jul-20	May-25	Ro302947	\$83,300
Goeders, Jeff	PI	GrammaTech	Office of Naval Research	Grammatech STTR Phase 2 - Bitstream Security	Jul-20	Aug-24	Ro302955	\$52,510
Goeders, Jeff	PI	GrammaTech	Office of Naval Research	Grammatech STTR Phase 2 - Bitstream Security	Jul-20	May-25	Ro302955	\$46,185
Goeders, Jeff	PI	GrammaTech	Office of Naval Research	Grammatech STTR Phase 2 - Bitstream Security	Jul-20	May-25	Ro302955	\$36,740
Goeders, Jeff	PI	Sandia National Laboratories	Department of Energy	Investigation of radiation effects and development of testing capabilities on Complex ICs in a radiation environment.	Jul-23	Oct-24	Ro303175	\$5,000
Goeders, Jeff	PI	Sandia National Laboratories	Department of Energy	Investigation of radiation effects and development of testing capabilities on Complex ICs in a radiation environment.	Jul-23	Oct-24	Ro303175	\$5,000
Goeders, Jeff	PI	Sandia National Laboratories	Department of Energy	Investigation of radiation effects and development of testing capabilities on Complex ICs in a radiation environment.	Jul-23	Oct-24	Ro303175	\$5,000
Goeders, Jeff	PI	Sandia National Laboratories	Department of Energy	Investigation of radiation effects and development of testing capabilities on Complex ICs in a radiation environment.	Jul-23	Oct-24	Ro303175	\$15,000
Goeders, Jeff	PI	Sandia National Laboratories	Department of Energy	Investigation of radiation effects and development of testing capabilities on Complex ICs in a radiation environment.	Jul-23	Oct-25	Ro303175	\$2,500
Goeders, Jeff	COI	SHREC Industry Memberships		CENTER FOR SPACE, HIGH- PERFORMANCE, AND RESILIENT COMPUTING (SHREC)	Jan-24	Dec-28	R0602722	\$25,000
Goeders, Jeff	COI	SHREC Industry Memberships		CENTER FOR SPACE, HIGH- PERFORMANCE, AND RESILIENT COMPUTING (SHREC)	Jan-24	Dec-28	R0602722	\$50,000
Goeders, Jeff	COI	SHREC Industry Memberships		CENTER FOR SPACE, HIGH- PERFORMANCE, AND RESILIENT COMPUTING (SHREC)	Jan-24	Dec-28	R0602722	\$25,000
Hansen, Derek	PI	National Science Foundation		CyberCorps Scholarship for Service: Building Research-minded Cyber Leaders	Jan-24	Dec-28	R0112529	\$77,663
Hansen, Derek	PI	National Science Foundation		CyberCorps Scholarship for Service: Building Research-minded Cyber Leaders	Jan-24	Dec-28	R0112530	\$165,352

Hansen, Derek	COI	Department of Defense		DoD Cyber Scholarship Program (Cy SP): An Immersive and Integrated Experiential Learning at Brigham Young University	Aug-24	Jul-25	R0202615	\$26,219
Hansen, Derek	COI	Department of Defense		DoD Cyber Scholarship Program (Cy SP): An Immersive and Integrated Experiential Learning at Brigham Young University	Aug-24	Jul-25	R0202616	\$41,433
Hawkins, Aaron	PI	National Science Foundation		REU Supplement - Collaborative Research: A Tunable Astrophotonic Spectrometer with Adaptive Faint- Source Extraction	Sep-22	Aug-25	R0112541	\$20,000
Jeffs, Brian	PI	National Science Foundation		ALPACA: Advanced Cryogenic L-band Phased Array Camera for the Arecibo Radio Telescope	Jun-18	May-25	R0112385	\$186,842
Lee, D.J.	PI	Cimarron	Department of Energy	Flare and Control for Ultra High Destruction and Removal Efficiency	Mar-24	Jun-24	R0303229	\$37,500
Lee, D.J.	PI	Cimarron	Department of Energy	Flare and Control for Ultra High Destruction and Removal Efficiency	Mar-24	Oct-24	R0303229	\$37,500
Lee, D.J.	PI	Cimarron	Department of Energy	Flare and Control for Ultra High Destruction and Removal Efficiency	Mar-24	May-25	Ro303229	\$75,000
Long, David	PI	University of Utah	National Aeronautics and Space Administration	Utah Space Grant Consortium Proposal for National Space Grant College and Fellowship Program Opportunities in NASA STEM FY 2020-2024	May-20	May-25	Ro302938	\$80,000
Long, David	PI	University of Utah	National Aeronautics and Space Administration	Utah Space Grant Consortium Proposal for National Space Grant College and Fellowship Program Opportunities in NASA STEM FY 2020-2024	May-20	May-25	Ro302938	\$5,000
Long, David	PI	Idaho National Laboratory	Department of Energy	Adaptable Critical Infrastructure Industrial Control System (ICS) Training Apparatus for the Energy and Communications Sectors	Mar-24	May-24	R0303224	\$22,000
Long, David	PI	Lawrence Livermore National Labs	Department of Energy	UAS Crash Recovery System for Ocean Environments (Part 2)	Nov-24	May-25	Ro303273	\$24,000
Long, David	PI	Idaho National Laboratory	Department of Energy	Tunable millimeter wave radar for laboratory use	Nov-24	Oct-25	Ro303275	\$24,000
Lundrigan, Phil	PI	National Science Foundation		Collaborative Research: Ideas Lab: ETAUS Meshed Observations of THE Remote Subsurface with Heterogeneous Intelligent Platforms (MOTHERSHIP)	Sep-23	Aug-26	R0112525	\$41,261
Lundrigan, Phil	PI	National Science Foundation		Collaborative Research: Ideas Lab: ETAUS Meshed Observations of THE Remote Subsurface with Heterogeneous Intelligent Platforms (MOTHERSHIP)	Sep-23	Aug-26	R0112525	\$49,026
Lundrigan, Phil	PI	Riverside Research Institute	Defense Advanced Research Projects Agency	Investigating Privacy-Preserving Techniques Using Wireless Sub- Protocols	Jun-23	Mar-25	R0303169	\$77,664
Lundrigan, Phil	COI	University of Utah Rocky Mountain Center for Occupational and Environmental Health	Centers for Disease Control and Prevention	Sustainable, Low-cost, Radon Mitigation Strategies for K-12 Schools and Employees	Jul-23	Dec-24	R0303206	\$2,183
Lundrigan, Phil	COI	Utah Governor's Office of Economic Opportunity		Heavy-duty Truck Emissions Monitoring at a Utah Distribution Center	Nov-23	Jun-26	R0402406	\$130,625

Mangelson, Joshua	PI	DOD Naval Surface Warfare Center		NEEC: Active Cooperative Terrain Aided Navigation Using Inverted- USBL	May-23	May-25	Ro202590	\$149,466
Mangelson, Joshua	PI	DOD Naval Surface Warfare Center		NEEC: Mixed Simulation and Reality for Testing of Multi-agent UUV Perceptual Autonomy	Sep-23	Sep-25	Ro202599	\$79,135
Mangelson, Joshua	PI	Office of Naval Research		Advanced Cross-Modality Localization and Mapping	Mar-24	Feb-27	Ro202604	\$100,000
Mangelson, Joshua	PI	Office of Naval Research		Advanced Cross-Modality Localization and Mapping	Mar-24	Feb-27	R0202604	\$99,870
Mangelson, Joshua	PI	Office of Naval Research		Advanced Cross-Modality Localization and Mapping	Mar-24	Feb-27	R0202604	\$85,000
Mangelson, Joshua	PI	Office of Naval Research		Modeling Natural Dynamic Scenes for Autonomous Littoral Operations	May-24	Apr-27	R0202605	\$109,825
Mangelson, Joshua	PI	Office of Naval Research		Modeling Natural Dynamic Scenes for Autonomous Littoral Operations	May-24	Apr-27	Ro202605	\$140,175
Mangelson, Joshua	PI	Office of Naval Research		Modeling Natural Dynamic Scenes for Autonomous Littoral Operations	May-24	Apr-27	R0202605	\$37,190
Mangelson, Joshua	PI	Office of Naval Research		Simulation of Dynamic Coastal Scenes for Semantic Autonomy	Aug-24	Jul-27	R0202614	\$100,000
Mangelson, Joshua	PI	DOD Naval Surface Warfare Center		NEEC: Active Cooperative Terrain Aided Navigation Using Inverted- USBL	May-23	May-25	R0202625	\$10,000
Mazzeo, Brian	PI	Department of Agriculture		Smart Bluetooth Stakes - A Low-Cost Engineering Approach to High- Density Soil Surveillance for Precision Crop and Water Management	Jul-24	Jun-27	R0202612	\$204,422
Mazzeo, Brian	COI	Omnitek Partners LLC	National Aeronautics and Space Administration	Phase I STTR: High-Frequency AC Heating of Batteries in Extreme Cold Environments	Aug-24	Sep-25	R0303274	\$22,500
Nordin, Greg	PI	National Institutes of Health		High Density 3D Printed Microfluidics for Cell-Based Biomedical Applications	Sep-23	Aug-26	R0102131	\$17,054
Nordin, Greg	PI	University of Utah	National Science Foundation	LEAP HI MFDA	Jul-23	Jun-27	R0303182	\$450,000
Peterson, Cammy	COI	National Science Foundation		IUCRC Phase I Brigham Young University: Center for Autonomous Air Mobility and Sensing (CAAMS)	Apr-22	Mar-27	R0112485	\$18,717
Peterson, Cammy	COI	National Science Foundation		IUCRC Phase I Brigham Young University: Center for Autonomous Air Mobility and Sensing (CAAMS)	Apr-22	Mar-27	R0112485	\$18,427
Peterson, Cammy	COI	National Science Foundation		IUCRC Phase I Brigham Young University: Center for Autonomous Air Mobility and Sensing (CAAMS)	Apr-22	Mar-27	R0112494	\$3,200
Peterson, Cammy	PI	4-D Avionics Systems, LLC	National Science Foundation	SBIR: 4D Flightpath Based Autonomous Separation Assurance Systems (ASAS), Phase II	Jul-24	Jun-26	Ro303240	\$74,967
Peterson, Cammy	COI	Leidos, Inc.	Army	MOCAPP: Multi-agent Online Collaborative Adaptive Path Planning	Oct-24	Nov-27	Ro303264	\$108,760
Peterson, Cammy	PI	CAAMS Industry Memberships		Explore Now, Exploit Later: Optimal UAS Fleet Coordination for Environmental and Adversarial Threats	Aug-22	Mar-27	R0602724	\$20,000
Peterson, Cammy	PI	4-D Avionics Systems, LLC		Dynamically Feasible Conflict Detection and Resolution Algorithms	Jan-24	Aug-24	R0602729	\$29,433
Peterson, Cammy	PI	CAAMS Industry Memberships		Cooperative Reasoning of UAVs in Multi-Objective Missions using Shared Event Memory	Aug-22	Mar-27	R0602740	\$20,000

Schooley, Ben	COI	National Science Foundation		CyberCorps Scholarship for Service: Building Research-minded Cyber Leaders	Jan-24	Dec-28	R0112529	\$77,663
Schooley, Ben	COI	National Science Foundation		CyberCorps Scholarship for Service: Building Research-minded Cyber Leaders	Jan-24	Dec-28	R0112530	\$165,352
Schooley, Ben	PI	University of South Carolina	Agency for Health Care Research and Quality	The Development and Evaluation of a Patient-Centered Opioid Discharge Prescribing Guideline within the Electronic Health Record of a Health System	Aug-23	Jul-24	R0303218	\$8,800
Schultz, Stephen	PI	Nielson Scientific, LLC	Department of Energy	Scalable High-density Superconducting Flex Cables and Circuits	Jun-23	Mar-24	R0303220	\$61,972
Schultz, Stephen	PI	Nielson Scientific, LLC	Army	Low-Power Smart Contact Lens for High-accuracy Eye Tracking and Monitoring	May-24	Nov-24	R0303241	\$58,320
Schultz, Stephen	PI	Nielson Scientific, LLC		ADVANCED MICROFABRICATION R&D	Aug-24	Feb-25	Ro602739	\$10,000
Smalley, Daniel	PI	National Science Foundation		Breakthrough Display Technology as a New Medium for Spatial Thinking in STEM	Apr-19	Mar-25	R0112399	\$20,000
Smalley, Daniel	PI	National Science Foundation		CAREER: Breakthrough Display Technology as a New Medium for Spatial Thinking in STEM	Apr-19	Mar-25	R0112478	\$20,000
Smalley, Daniel	PI	National Science Foundation		PFI-TT: Kits for Developing Aerial 3D Display Technology	Mar-23	Aug-24	R0112511	\$88,628
Smalley, Daniel	PI	National Science Foundation		PFI-TT: Kits for Developing Aerial 3D Display Technology	Mar-23	Aug-24	R0112511	\$34,445
Smalley, Daniel	PI	National Science Foundation		2023 REU Supplement for PFI	Mar-23	Aug-24	R0112520	\$16,000
Smalley, Daniel	PI	National Science Foundation		PFI-TT: A Commercial Platform for Engaging and Extending Breakthrough Optical Trap Display Technology	Mar-23	Aug-24	R0112544	\$22,000
Snell, Jay	COI	National Science Foundation		CyberCorps Scholarship for Service: Building Research-minded Cyber Leaders	Jan-24	Dec-28	R0112529	\$77,663
Snell, Jay	COI	National Science Foundation		CyberCorps Scholarship for Service: Building Research-minded Cyber Leaders	Jan-24	Dec-28	R0112530	\$165,352
Snell, Jay	PI	Department of Defense		DoD Cyber Scholarship Program (Cy SP): An Immersive and Integrated Experiential Learning at Brigham Young University	Aug-24	Jul-25	R0202615	\$26,219
Snell, Jay	PI	Department of Defense		DoD Cyber Scholarship Program (Cy SP): An Immersive and Integrated Experiential Learning at Brigham Young University	Aug-24	Jul-25	R0202616	\$41,433
Tay, Albert	COI	National Science Foundation		CyberCorps Scholarship for Service: Building Research-minded Cyber Leaders	Jan-24	Dec-28	R0112529	\$77,663
Tay, Albert	COI	National Science Foundation		CyberCorps Scholarship for Service: Building Research-minded Cyber Leaders	Jan-24	Dec-28	R0112530	\$165,352
Usevitch, James	PI	Leidos, Inc.	Army	MOCAPP: Multi-agent Online Collaborative Adaptive Path Planning	Oct-24	Nov-27	Ro303264	\$108,760
Warnick, Karl	COI	National Science Foundation		ALPACA: Advanced Cryogenic L-band Phased Array Camera for the Arecibo Radio Telescope	Jun-18	May-25	R0112385	\$186,842

Warnick, Karl	PI	Virginia Polytechnic Institute and State University	Department of Energy	MULTI-PHYSICS, INTELLIGENT SENSING SYSTEM (MISS) FOR REAL-TIME, LOOK-AHEAD WHILE DRILLING	Apr-24	Jul-27	Ro303255	\$80,038
Warnick, Karl	PI	Oxford University	Breakthrough Prize Foundation	LFT3 UHF Main Mission Array Design and Prototype	Sep-24	Aug-25	R0502424	\$62,981
Wirthlin, Mike	PI	Air Force Research Laboratory		I/UCRC SHREC Membership Dues	Mar-24	Mar-25	R0202603	\$50,000
Wirthlin, Mike	PI	Pennsylvania State University	Defense Threat Reduction Agency	Interaction of Ionizing Radiation with Matter, University Research Alliance (IIRM-URA)	Jul-20	May-25	Ro302947	\$83,300
Wirthlin, Mike	COI	Sandia National Laboratories	Department of Energy	Investigation of radiation effects and development of testing capabilities on Complex ICs in a radiation environment.	Jul-23	Oct-24	Ro303175	\$5,000
Wirthlin, Mike	COI	Sandia National Laboratories	Department of Energy	Investigation of radiation effects and development of testing capabilities on Complex ICs in a radiation environment.	Jul-23	Oct-24	R0303175	\$5,000
Wirthlin, Mike	COI	Sandia National Laboratories	Department of Energy	Investigation of radiation effects and development of testing capabilities on Complex ICs in a radiation environment.	Jul-23	Oct-24	Ro303175	\$5,000
Wirthlin, Mike	COI	Sandia National Laboratories	Department of Energy	Investigation of radiation effects and development of testing capabilities on Complex ICs in a radiation environment.	Jul-23	Oct-24	Ro303175	\$15,000
Wirthlin, Mike	COI	Sandia National Laboratories	Department of Energy	Investigation of radiation effects and development of testing capabilities on Complex ICs in a radiation environment.	Jul-23	Oct-25	Ro303175	\$2,500
Wirthlin, Mike	COI	Purdue University	Army	SCALE - Microelectronics Workforce Development Project for Radiation Hardness	Apr-24	Mar-25	Ro303234	\$6,049
Wirthlin, Mike	COI	Purdue University	Army	SCALE - Microelectronics Workforce Development Project for Radiation Hardness	Apr-24	Mar-25	Ro303234	\$31,452
Wirthlin, Mike	PI	SHREC Industry Memberships		CENTER FOR SPACE, HIGH- PERFORMANCE, AND RESILIENT COMPUTING (SHREC)	Jan-24	Dec-28	R0602722	\$25,000
Wirthlin, Mike	PI	SHREC Industry Memberships		CENTER FOR SPACE, HIGH- PERFORMANCE, AND RESILIENT COMPUTING (SHREC)	Jan-24	Dec-28	R0602722	\$50,000
Wirthlin, Mike	PI	SHREC Industry Memberships		CENTER FOR SPACE, HIGH- PERFORMANCE, AND RESILIENT COMPUTING (SHREC)	Jan-24	Dec-28	R0602722	\$25,000

Manufacturing Engineering

Manufactui	ring Eng	ıneering						
George, Andy	PI	University of Utah	Department of Energy	Cost-effective Circular Manufacturing of Lightweight Vehicle Shells and Battery Casing by Recyclable-by- Design Polymer Composites	Aug-24	May-25	R0303266	\$96,715
Hovanski, Yuri	PI	National Aeronautics and Space Administration		Membership in the Center for Friction Stir Processing	Aug-23	Aug-25	R0202594	\$100,000
Hovanski, Yuri	COI	Department of Energy		Development and Validation of a Dual-Purpose Instrument for On-line Monitoring of Molten Salt Composition and Thermal Behavior	Aug-24	Sep-27	R0202609	\$263,999
Hovanski, Yuri	COI	Department of Energy		Development and Validation of a Dual-Purpose Instrument for On-line Monitoring of Molten Salt Composition and Thermal Behavior	Aug-24	Sep-27	R0202610	\$32,976
Hovanski, Yuri	PI	Pacific Northwest National Laboratory	Department of Energy	Center of Friction Stir Processing Membership	Sep-21	Mar-26	R0303012	\$50,000
Hovanski, Yuri	PI	Bechtel Plant Machinery Inc.	Department of Energy	For Demonstration of Friction Stir Deposition Additive Manufacturing of Pressure Vessel Grade Metals	Aug-24	Apr-25	R0303243	\$250,000
Hovanski, Yuri	PI	Friction Stir Processing I/UCRC Industry Membership Dues		Center of Friction Stir Processing Membership	Dec-19	Nov-30	R0602623	\$350,000
Hovanski, Yuri	PI	Friction Stir Processing I/UCRC Industry Membership Dues		Center of Friction Stir Processing Membership	Dec-19	Nov-30	R0602623	\$50,000
Hovanski, Yuri	PI	Friction Stir Processing I/UCRC Industry Membership Dues		Center of Friction Stir Processing Membership	Dec-19	Nov-30	R0602623	\$25,000
Hovanski, Yuri	PI	Friction Stir Processing I/UCRC Industry Membership Dues		Center of Friction Stir Processing Membership	Dec-19	Nov-30	R0602623	\$200,000
Hovanski, Yuri	PI	HII Mission Technologies Corp	Department of Defense	Increased Tool Cooling via Additive Friction Stir Deposition (AFSD) Tool Holders	Dec-24	Sep-25	AW02009	\$361,893
Miles, Michael	COI	National Science Foundation		REU Supplement for GOALI/Collaborative Research: Understanding Multiscale Mechanics of Cyclic Bending under Tension to Improve Elongation- to-Fracture of Hexagonal Metals	Sep-22	Aug-25	R0112521	\$8,000
Miles, Michael	COI	General Electric Global Research		Feasibility Study on A New Method for Obtaining Material Flow Data for the Next Generation Inertia Weld Parameter Optimization Model	Mar-24	Dec-26	R0602732	\$12,499
Miles, Michael	PI	General Electric Global Research		Modeling of Friction Welding of Next Generation Super Alloys using Improved Flow Stress Data	Oct-24	Dec-24	R0602741	\$17,802
Nelson, Tracy	PI	General Electric Global Research		Feasibility Study on A New Method for Obtaining Material Flow Data for the Next Generation Inertia Weld Parameter Optimization Model	Mar-24	Dec-26	R0602732	\$12,499
Nelson, Tracy	COI	General Electric Global Research		Modeling of Friction Welding of Next Generation Super Alloys using Improved Flow Stress Data	Oct-24	Dec-24	R0602741	\$17,802

Mechanical Engineering

Mecnanicai I	enginee	ering						
Adams, Brad	COI	National Science Foundation		Collaborative Research: Network Cluster: Dust in the Critical Zone from the Great Basin to the Rocky Mountains	Sep-21	Aug-25	R0112444	\$26,272
Allen, Matt	PI	National Science Foundation		Models for Material Damping of Powders in Additively Manufactured Metal Parts	Sep-24	Aug-27	R0112552	\$116,776
Allen, Matt	PI	Kansas City National Security Campus	Department of Energy	2024 Continuation: Influence of Boundary Conditions in Smart Environmental Testing	Nov-23	Aug-24	R0303215	\$75,000
Allen, Matt	PI	Kansas City National Security Campus	Department of Energy	2024 Continuation: Influence of Boundary Conditions in Smart Environmental Testing	Nov-23	Nov-24	R0303215	\$25,000
Allen, Matt	PI	Kansas City National Security Campus	Department of Energy	KCNSC-RJ - Simulation Methods for Optimal Fixture Design and Prediction	Jan-24	Aug-24	R0303216	\$99,910
Allen, Matt	PI	Sandia National Laboratories	Department of Energy	Education and Foundational Research in Dynamic Substructuring	Jan-24	Sep-24	R0303219	\$40,000
Allen, Matt	PI	Kansas City National Security Campus	Department of Energy	2025 Continuation: Influence of Boundary Conditions in Smart Environmental Testing	Nov-24	Aug-25	R0303271	\$25,000
Allen, Matt	PI	Kansas City National Security Campus	Department of Energy	KCNSC-RJ - Simulation Methods for Optimal Fixture Design and Prediction	Nov-24	Aug-25	R0303272	\$125,000
Allen, Matt	PI	Pratt & Whitney		Predicting and Characterizing the Damping and Nonlinearity in Finger Seal joints	Jun-24	Dec-24	R0602733	\$79,983
Blotter, Jonathan	PI	Caterpillar		REAL-TIME DETECTION AND FILTERING OF EXTERNAL SPEECH SIGNALS IN A WORKING MACHINE ENVIRONMENT	Jan-24	Dec-24	R0602730	\$45,890
Bowden, Anton	PI	University of North Carolina - Chapel Hill	National Institutes of Health	Back Pain Consortium (BACPAC) Research Program Data Integration, Algorithm Development and Operations Management Center (Ancillary)	Sep-23	May-24	Ro303196	\$3,722
Bowden, Anton	PI	University of North Carolina - Chapel Hill	National Institutes of Health	Back Pain Consortium (BACPAC) Research Program Data Integration, Algorithm Development and Operations Management Center (Ancillary)	Sep-23	May-24	R0303197	\$4,607
Bowden, Anton	PI	University of North Carolina - Chapel Hill	National Institutes of Health	Collaborative biomechanics analysis of best trial data within the BACPAC consortium	Jun-24	Aug-25	Ro303277	\$23,766
Bowden, Anton	PI	33 Medical, Inc.		Posterior/Lateral Compliant Lumbar Disc Replacement	Jul-23	Jan-26	R0602718	\$73,153
Cook, Douglas	PI	National Science Foundation		CAREER: Combining Engineering, Biomechanics, and Genetic Analysis to Enable the Design of Structurally Superior Grain Crops	Apr-21	Mar-26	R0112462	\$8,000
Crane, Nathan	PI	National Science Foundation		Collaborative Research: Modulating Powder Bed Cohesion to Reduce Defects in Binder Jetting	Aug-20	Jul-25	R0112447	\$16,000
Crane, Nathan	PI	National Science Foundation		Collaborative Research: Modulating Powder Bed Cohesion to Reduce Defects in Binder Jetting	Aug-20	Jul-25	R0112455	\$16,000
Crane, Nathan	COI	National Science Foundation		Models for Material Damping of Powders in Additively Manufactured Metal Parts	Sep-24	Aug-27	R0112552	\$113,341

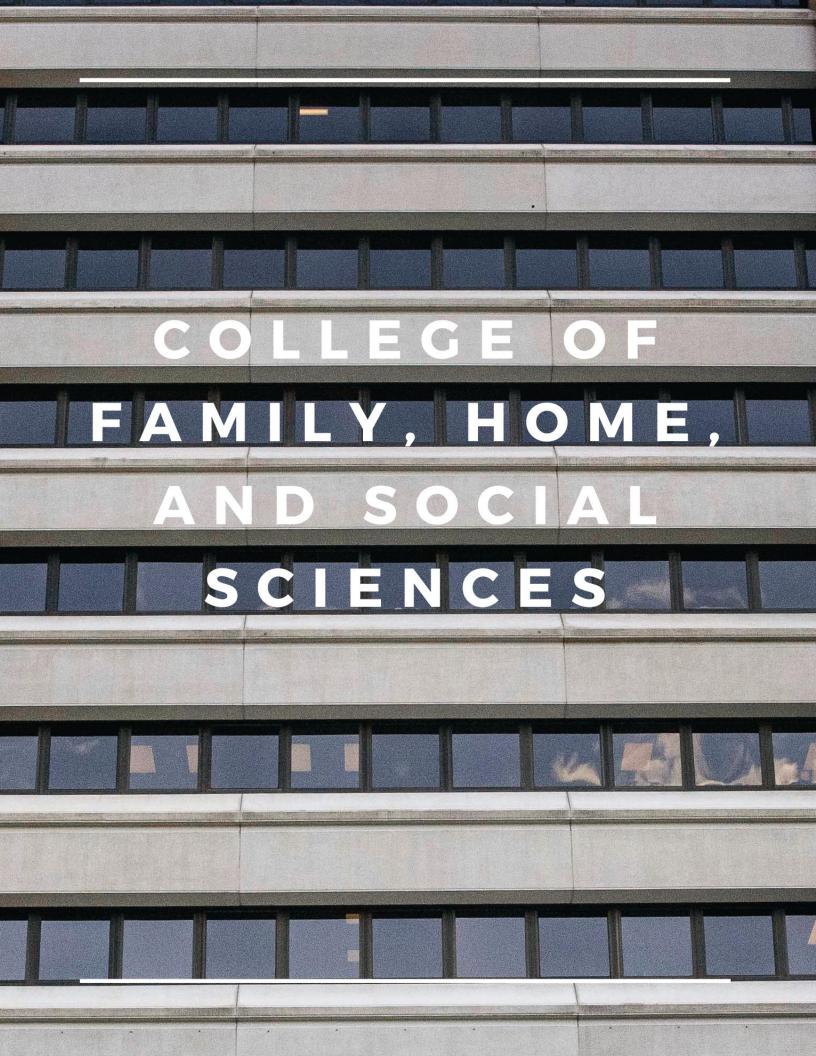
Crane, Nathan	PI	National Science Foundation		BRITE Pivot: High-Volume Manufacture of Origami-Inspired, Mass-Customized, Structures and Forms for Building Construction	Dec-24	Nov-27	R0112553	\$596,486
Crockett, Julie	PI	National Science Foundation		Nonlinear internal wave generation by tidal flow over complex topography	May-24	Apr-27	R0112538	\$297,566
Davies, Brady	PI	Air Force Research Laboratory		Mini-tensile stage for damage characterization of high-temperature ceramic composites	Aug-23	Apr-24	R0202602	\$22,000
Davies, Brady	PI	Air Force Research Laboratory		Mini-Tensile Stage for Ceramic Matrix Composites	Sep-24	Apr-25	R0202624	\$22,000
Davies, Brady	PI	Innovative Scientific Solutions Inc.	Air Force Research Laboratory	Aerospace Propulsion Outreach Program: Variable Nozzle Technology	Sep-24	Jun-25	R0303262	\$19,000
Davies, Brady	PI	Sandia National Laboratories	Department of Energy	Vibration Mitigation for Multi-Shaker Test Stand	Sep-24	Apr-25	R0303263	\$23,500
Dillon, Christopher	PI	Sandia National Laboratories	Department of Energy	BYU/SNL Reduced Order Methods Collaboration	Apr-22	Dec-24	Ro303054	\$25,000
Dillon, Christopher	PI	Sandia National Laboratories	Department of Energy	BYU/SNL Reduced Order Methods Collaboration	Apr-22	Dec-25	Ro303054	\$35,000
Fullwood, David	PI	National Science Foundation		REU Supplement for GOALI/Collaborative Research: Understanding Multiscale Mechanics of Cyclic Bending under Tension to Improve Elongation- to-Fracture of Hexagonal Metals	Sep-22	Aug-25	R0112521	\$8,000
Fullwood, David	COI	University of North Carolina - Chapel Hill	National Institutes of Health	Back Pain Consortium (BACPAC) Research Program Data Integration, Algorithm Development and Operations Management Center	Sep-23	May-24	R0303196	\$3,613
Fullwood, David	PI	University of Utah	National Aeronautics and Space Administration	BYU Rocketry 2024 IREC Participation	May-24	May-25	R0303238	\$11,000
Fullwood, David	COI	University of North Carolina - Chapel Hill	National Institutes of Health	Collaborative biomechanics analysis of best trial data within the BACPAC consortium	Jun-24	Aug-25	R0303277	\$23,067
Fullwood, David	COI	National Science Foundation		Equipment: MRI: Track 1 Acquisition of a multipurpose X-ray diffractometer for materials research	Jan-25	Dec-27	AW02004	\$75,719
Gorrell, Steven	COI	Georgia Institute of Technology	Department of Defense	MATCHES: Multi-Agent Teaming for Cooperative Hypersonic Engagement and Strike	Oct-23	Mar-26	R0303276	\$40,810
Hill, Jeff	COI	National Science Foundation		Models for Material Damping of Powders in Additively Manufactured Metal Parts	Sep-24	Aug-27	R0112552	\$113,341
Hill, Jeff	COI	Sandia National Laboratories	Department of Energy	Education and Foundational Research in Dynamic Substructuring	Jan-24	Sep-24	R0303219	\$40,000
Homer, Eric	PI	Department of Energy		Computational and Experimental Investigation of Cryogenic Grain Boundary Motion for Enhanced Mechanical Properties	Aug-23	Jul-25	R0202591	\$103,693
Howell, Larry	PI	National Science Foundation		Collaborative Research: Integrating Optimal Function and Compliant Mechanisms for Ubiquitous Lower- Limb Powered Prostheses	Sep-24	Aug-27	R0112533	\$282,138

Howell, Larry	COI	National Aeronautics and Space Administration		Metalens Origami Deployable Lidar (MODeL) Telescope	May-23	May-26	R0162047	\$50,000
Howell, Larry	PI	National Aeronautics and Space Administration		Achieving Unprecedented Precision in Origami-based deployable Space Systems: Philip Klocke Fellowship	Aug-24	Aug-28	R0162053	\$75,924
Iverson, Brian	PI	National Aeronautics and Space Administration		Oscillating Heat Pipe Thermal Hinge for Passive Thermal Management	Aug-23	Jul-25	R0162048	\$44,500
Iverson, Brian	PI	University of Dayton	National Aeronautics and Space Administration	Passively Deployed Radial Radiator for Transfer and Rejection of CubeSat Waste Heat	Oct-23	Oct-25	Ro303217	\$103,701
Jensen, Brian	COI	Peter Feinstein		Development of Automatically Engaging Wrist Band	Jun-24	Apr-25	R0602734	\$24,968
Johnson, Oliver	COI	Department of Energy		Computational and Experimental Investigation of Cryogenic Grain Boundary Motion for Enhanced Mechanical Properties	Aug-23	Jul-25	Ro202591	\$103,693
Johnson, Oliver	COI	University of Pittsburgh	Department of Energy	High Throughput Measurements of the Anisotropic Thermal Properties of SiC/SiC Cladding	Aug-24	Sep-27	Ro303246	\$284,980
Jones, Matt	COI	Sandia National Laboratories	Department of Energy	BYU/SNL Reduced Order Methods Collaboration	Apr-22	Dec-24	Ro303054	\$25,000
Jones, Matt	COI	Sandia National Laboratories	Department of Energy	BYU/SNL Reduced Order Methods Collaboration	Apr-22	Dec-25	Ro303054	\$35,000
Jones, Matt	COI	Utah Governor's Office of Economic Opportunity		Heavy-duty Truck Emissions Monitoring at a Utah Distribution Center	Nov-23	Jun-26	R0402406	\$130,625
Killpack, Marc	PI	University of Utah	National Aeronautics and Space Administration	University Rover Challenge: 2024 BYU Mars Rover Team	May-24	May-25	R0303237	\$8,000
Killpack, Marc	COI	University of Utah	National Aeronautics and Space Administration	NASA BIG Idea Challenge, Untethered and Modular Inflatable Robots for Lunar Operations	May-24	May-25	R0303253	\$36,960
Killpack, Marc	COI	National Institute of Aerospace		NASA BIG Idea Challenge, Untethered and Modular Inflatable Robots for Lunar Operations	Mar-24	Dec-24	R0502412	\$36,960
Long, David*	PI	Los Alamos National Laboratory	Department of Energy	Capstone Projects	Aug-22	Jun-26	Ro303233	\$40,643
Magleby, Spencer	PI	National Aeronautics and Space Administration		Metalens Origami Deployable Lidar (MODeL) Telescope	May-23	May-26	R0162047	\$50,000
Magleby, Spencer	COI	Peter Feinstein		Development of Automatically Engaging Wrist Band	Jun-24	Apr-25	Ro602734	\$24,968
Mattson, Chris	PI	United States Air Force Academy		Effective Use of Product Architecture to Help Engineering Teams Manage Complexity in the Design Process	Oct-21	Sep-25	R0202564	\$10,000
Mattson, Chris	PI	United States Air Force Academy		Effective Use of Product Architecture to Help Engineering Teams Manage Complexity in the Design Process	Oct-21	Sep-25	R0202564	\$13,652
Mattson, Chris	PI	United States Air Force Academy		Effective Use of Product Architecture to Help Engineering Teams Manage Complexity in the Design Process	Oct-21	Sep-25	R0202564	\$22,955
McLain, Tim	COI	National Science Foundation		IUCRC Phase I Brigham Young University: Center for Autonomous Air Mobility and Sensing (CAAMS)	Apr-22	Mar-27	R0112485	\$18,717

McLain, Tim	COI	National Science Foundation		IUCRC Phase I Brigham Young University: Center for Autonomous Air Mobility and Sensing (CAAMS)	Apr-22	Mar-27	R0112485	\$18,427
McLain, Tim	COI	National Science Foundation		IUCRC Phase I Brigham Young University: Center for Autonomous Air Mobility and Sensing (CAAMS)	Apr-22	Mar-27	R0112494	\$3,200
McLain, Tim	PI	National Science Foundation		REU for IUCRC Phase I Brigham Young University: Center for Autonomous Air Mobility and Sensing (CAAMS)	Apr-22	Mar-27	R0112494	\$16,000
McLain, Tim	PI	University of Colorado, Boulder	National Science Foundation	Multi-agent localization in GPS-denied environments	Apr-22	Mar-27	Ro303248	\$77,000
McLain, Tim	PI	CAAMS Industry Memberships		Multi-agent localization in GPS-denied environments	Aug-22	Mar-27	Ro602699	\$27,500
McLain, Tim	PI	CAAMS Industry Memberships		ROSflight2 – An open-source AAM autopilot under ROS 2	Aug-22	Mar-27	R0602726	\$17,500
Munro, Troy	COI	Department of Energy		Development and Validation of a Dual-Purpose Instrument for On-line Monitoring of Molten Salt Composition and Thermal Behavior	Aug-24	Sep-27	R0202609	\$263,999
Munro, Troy	COI	Department of Energy		Development and Validation of a Dual-Purpose Instrument for On-line Monitoring of Molten Salt Composition and Thermal Behavior	Aug-24	Sep-27	R0202610	\$32,976
Munro, Troy	PI	University of Pittsburgh	Department of Energy	High Throughput Measurements of the Anisotropic Thermal Properties of SiC/SiC Cladding	Aug-24	Sep-27	R0303246	\$284,980
Ning, Andrew	COI	National Science Foundation		IUCRC Phase I Brigham Young University: Center for Autonomous Air Mobility and Sensing (CAAMS)	Apr-22	Mar-27	R0112485	\$18,717
Ning, Andrew	COI	National Science Foundation		IUCRC Phase I Brigham Young University: Center for Autonomous Air Mobility and Sensing (CAAMS)	Apr-22	Mar-27	R0112485	\$18,427
Ning, Andrew	COI	National Science Foundation		IUCRC Phase I Brigham Young University: Center for Autonomous Air Mobility and Sensing (CAAMS)	Apr-22	Mar-27	R0112494	\$3,200
Ning, Andrew	PI	National Aeronautics and Space Administration		An Algorithmic Differentiation Based Framework for Mixed Analysis Codes	Sep-23	Aug-26	R0162050	\$233,337
Ning, Andrew	PI	National Renewable Energy Laboratory	Department of Energy	Differentiable Programming for Coupled Multi-Physics Problems with Disparate Timescales	Mar-23	Sep-25	R0303148	\$105,926
Ning, Andrew	PI	National Renewable Energy Laboratory	Department of Energy	Multidisciplinary Optimization and Uncertainty Quantification of Wind Energy Systems	Apr-23	Sep-25	Ro303154	\$30,000
Ning, Andrew	PI	National Renewable Energy Laboratory	Department of Energy	Multidisciplinary Optimization and Uncertainty Quantification of Wind Energy Systems	Apr-23	Sep-25	Ro303154	\$50,000
Ning, Andrew	PI	Georgia Institute of Technology	Department of Defense	MATCHES: Multi-Agent Teaming for Cooperative Hypersonic Engagement and Strike	Oct-23	Mar-26	R0303276	\$40,810
Ning, Andrew	PI	CAAMS Industry Memberships		Unsteady aerodynamic analysis with vortex particle methods	Aug-22	Mar-27	R0602713	\$25,000
Porter, Jason	PI	Colorado School of Mines	National Science Foundation	EAGER: CET: Advancing Sustainable Cathode Recycling of Spent Lithium- Ion Batteries using Deep Eutectic Solvents	Mar-24	Feb-26	R0303228	\$60,446

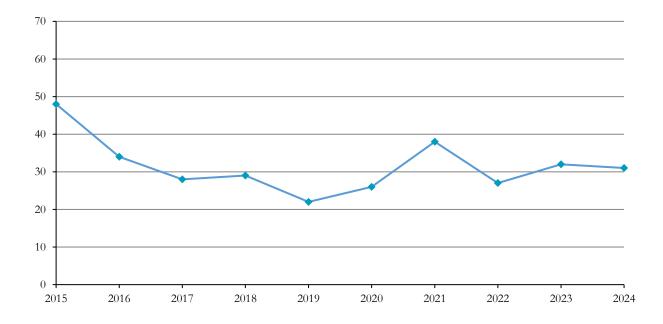
Porter, Jason	PI	Colorado School of Mines	Department of Energy	Coupled multi-scale modeling and diagnostics for lithium-sulfur battery design	Aug-24	Jul-25	R0303250	\$97,156
Salmon, John	COI	4-D Avionics Systems, LLC	National Science Foundation	SBIR: 4D Flightpath Based Autonomous Separation Assurance Systems (ASAS), Phase II	Jul-24	Jun-26	R0303240	\$74,967
Salmon, John	COI	4-D Avionics Systems, LLC		Dynamically Feasible Conflict Detection and Resolution Algorithms	Jan-24	Aug-24	R0602729	\$29,433
Sorensen, Carl	COI	United States Air Force Academy		Effective Use of Product Architecture to Help Engineering Teams Manage Complexity in the Design Process	Oct-21	Sep-25	Ro202564	\$10,000
Sorensen, Carl	COI	United States Air Force Academy		Effective Use of Product Architecture to Help Engineering Teams Manage Complexity in the Design Process	Oct-21	Sep-25	Ro202564	\$13,652
Sorensen, Carl	COI	United States Air Force Academy		Effective Use of Product Architecture to Help Engineering Teams Manage Complexity in the Design Process	Oct-21	Sep-25	Ro202564	\$22,955
Speirs, Nathan	PI	National Science Foundation		ERI: Cavitation Bubble Dynamics Near Mixed Solid-Gaseous Surfaces	Apr-24	Mar-26	R0112542	\$200,000
Speirs, Nathan	PI	DOD Naval Sea Systems Command		Gas dynamics of water-entry cavities	Jun-24	Jun-25	R0202611	\$100,754
Terry, Benjamin	PI	Caytu, Inc.		Measuring the value of a headed vs headless crowd-sourced, semi- autonomous delivery robot	Jun-22	Sep-23	R0602683	\$2,293
Tree, Dale	COI	Utah Governor's Office of Economic Opportunity		Heavy-duty Truck Emissions Monitoring at a Utah Distribution Center	Nov-23	Jun-26	R0402406	\$130,625
Usevitch, Nathan	PI	University of Utah	National Aeronautics and Space Administration	NASA BIG Idea Challenge, Untethered and Modular Inflatable Robots for Lunar Operations	May-24	May-25	R0303253	\$36,960
Usevitch, Nathan	PI	National Institute of Aerospace		NASA BIG Idea Challenge, Untethered and Modular Inflatable Robots for Lunar Operations	Mar-24	Dec-24	Ro502412	\$36,960
Usevitch, Nathan	PI	Peter Feinstein		Development of Automatically Engaging Wrist Band	Jun-24	Apr-25	R0602734	\$25,724

^{*} The Lead unit for R0303233 is Mechanical Engineering

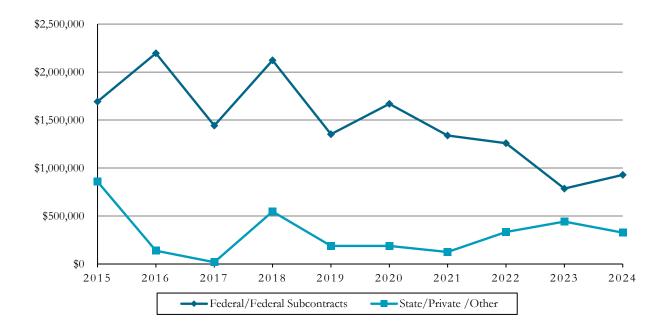


Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards*	Dollars Awarded*
Anthropology	0	0	1	\$18,000
Economics	4	10	2	\$54,313
Geography	0	1	1	\$301,581
History	2	3	5	\$614,059
Museum of Peoples and Cultures	0	0	0	\$0
Political Science	2	3	0	\$0
Psychology	3	3	1	\$25,094
School of Family Life	5	8	3	\$224,014
School of Social Work	1	1	1	\$18,359
Sociology	2	2	0	\$0
TOTALS	19	31	14	\$1,255,420

^{*}Number of Awards are counted by PI only, while total Dollars Awarded is split between all researchers



	Grants/Co	ontracts	
Year	Federal/Federal Subcontracts	State/Private /Other	Total
2015	\$1,692,729	\$859,560	\$2,552,289
2016	\$2,196,122	\$137,839	\$2,333,961
2017	\$1,442,760	\$18,636	\$1,461,396
2018	\$2,121,801	\$547,574	\$2,669,375
2019	\$1,351,545	\$188,421	\$1,539,966
2020	\$1,669,813	\$188,847	\$1,858,660
2021	\$1,339,532	\$124,366	\$1,463,898
2022	\$1,258,583	\$334,342	\$1,592,925
2023	\$786,097	\$441,819	\$1,227,916
2024	\$927,950	\$327,469	\$1,255,419



College of Family, Home, & Social Sciences 2024 Awards

Researcher	<u>Role</u>	Sponsor	<u>Prime</u> Sponsor			End Date	Account	<u>Amount</u>
Anthropolog	y							
Stavast, Paul	PI	Utah Division of Arts and Museums		Museum of Peoples and Cultures Operating Support Grant	Jul-23	Jun-24	R0402407	\$18,000
Economics								_
Leslie, Emily	PI	University of Missouri		The effects of access to affordable housing among criminal justice involved individuals	Mar-24	Jul-24	R0502417	\$25,375
Price, Joseph	PI	University of Maryland	National Institutes of Health The impact of Medicare on Individual Longevity: Evidence from Medicare Introduction Using Big Data The impact of Medicare on Individual Longevity: Evidence from Medicare Introduction Using Big Data		R0303168	\$28,938		
Geography								
Bekker, Matt	PI	National Science Foundation		Collaborative Research: Advancing our Understanding of Global Paleoclimate Through the Expansion of African Dendrochronology	Jul-24	Jun-27	R0112549	\$103,171
Kerry, Ruth	COI	Department of Agriculture		Smart Bluetooth Stakes - A Low- Cost Engineering Approach to High-Density Soil Surveillance for Precision Crop and Water Management	Jul-24	Jun-27	R0202612	\$198,410
History								
Adams, Suzanne	PI	University of Wisconsin-Madison	Department of Defense	Defense POW/MIA Accounting Agency Repatriation Project	Sep-19	Sep-25	R0302894	\$77,581
Cannon, Brian	PI	The Church of Jesus Christ of Latter-day Saints		Ottoman Census of Palestine Index/Research	May-21	Dec-24	R0702020	\$150,000
Cannon, Brian	PI	The Church of Jesus Christ of Latter-day Saints		Ottoman Census of Palestine Index/Research	May-21	Dec-24	R0702020	\$54,000
Shumway, Jeffrey	PI	University of Utah	Department of Education			R0303120	\$249,667	
Shumway, Jeffrey	PI	University of Utah	Department of Education	Title VI NRC Grant	Aug-22	Aug-25	R0303121	\$82,811

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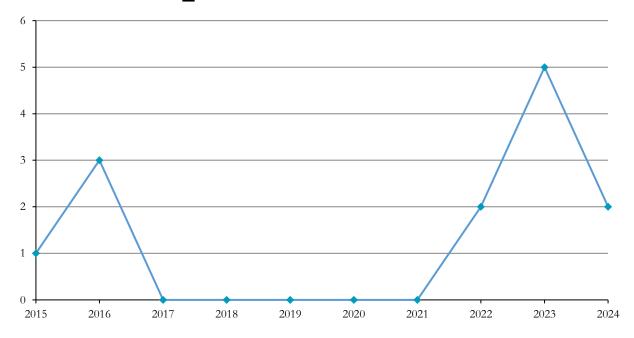
School of Family Life

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Coyne, Sarah	PI	Georgetown University	National Institutes of Health	Early childhood and digital media	Sep-22	Aug-25	R0303133	\$169,014
Coyne, Sarah	PI	Harvard University		Utah Social Media Legislation: Harvard	Jan-24	Dec-24	R0502414	\$25,000
Rogers, Adam	PI	Mental Research Institute		Advancing the Development of Emotional Proficiencies in Teens	Feb-24	Jan-25	Ro502413	\$30,000
Social Work								
Clark, Charlene	PI	Utah Commission on Service & Volunteerism	AmeriCorps	AmeriCorps Program 2024-25	Aug-24	Aug-25	Ro303245	\$18,359

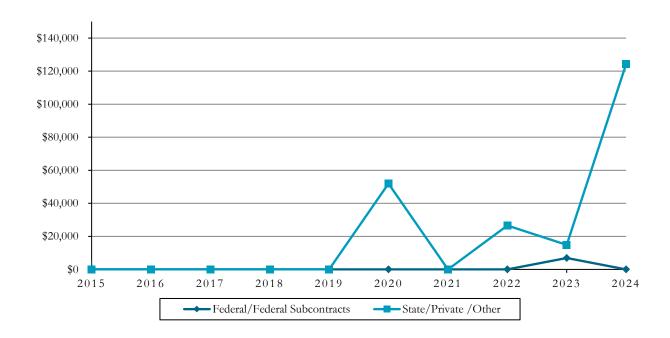


Department		# of Faculty Submitting	# of Proposals Submitted	# of Awards*	Dollars Awarded*
Art		0	0	0	\$0
Bravo		0	0	0	\$0
Communications		1	1	0	\$0
Dance		0	0	0	\$0
Design		0	0	0	\$0
Museum of Art		1	1	2	\$124,200
School of Music		0	0	0	\$0
Theatre & Media Arts		0	0	0	\$0
	TOTALS	2	2	2	\$124,200

^{*}Number of Awards are counted by PI only, while total Dollars Awarded is split between all researchers



	Grants/Contracts		
Year	Federal/Federal	State/Private	Total
	Subcontracts	/Other	
2015	\$0	\$0	\$0
2016	\$0	\$0	\$0
2017	\$0	\$0	\$0
2018	\$0	\$0	\$0
2019	\$0	\$0	\$0
2020	\$0	\$51,938	\$51,938
2021	\$0	\$0	\$0
2022	\$0	\$26,600	\$26,600
2023	\$6,900	\$14,800	\$21,700
2024	\$0	\$124,200	\$124,200



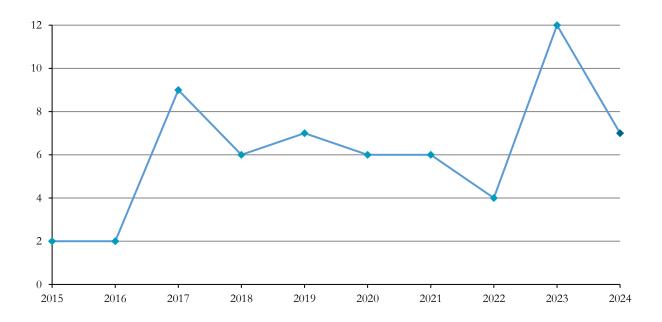
College of Fine Arts & Communications 2024 Awards

Researcher	<u>Role</u>	<u>Sponsor</u>	<u>Prime</u> <u>Sponsor</u>	<u>Title</u>	Beg Date	End Date	Account	Amount
Museum of A	Art							
Emmer, Janalee	PI	Utah Division of Arts and Museums	National Endowment for the Arts	BYU MOA General Operating Support Grant	Jul-23	Jun-24	R0303214	\$60,000
Emmer, Janalee	PI	Utah Division of Arts and Museums		BYU MOA General Operating Support Grant	Nov-24	Jun-25	AW02007	\$64,200

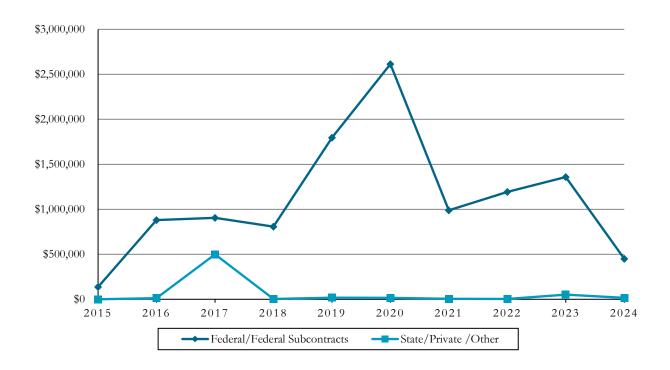


Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards*	Dollars Awarded*
Asian & Near Eastern Languages	3	3	2	\$83,664
Comparative Arts & Letters	1	1	5	\$383,270
English	1	2	0	\$0
French & Italian	0	0	0	\$0
German & Russian	0	0	0	\$0
Linguistics & English Language	0	0	0	\$0
Philosophy	0	0	0	\$0
Spanish & Portuguese	1	1	0	\$0
TOTALS	6	7	7	\$466,934

^{*}Number of Awards are counted by PI only, while total Dollars Awarded is split between all researchers



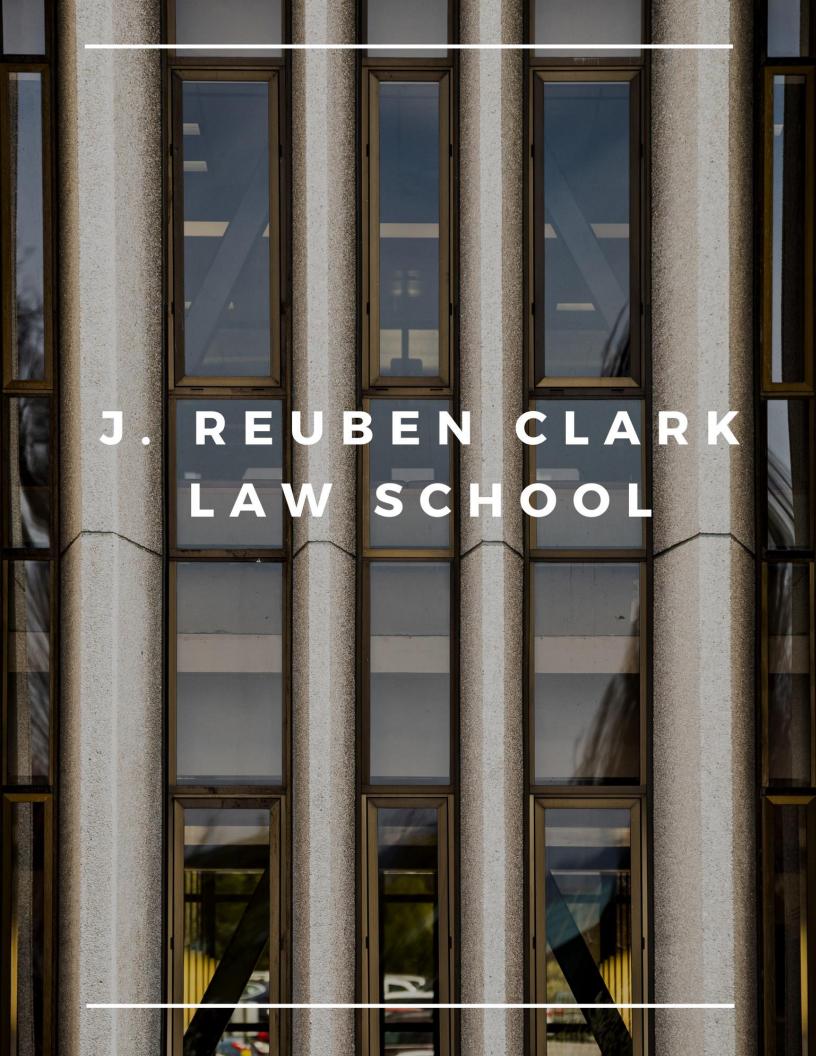
	Grants/Co	ntracts	
Year	Federal/Federal	State/Private	Total
	Subcontracts	/Other	
2015	\$137,798	\$0	\$137,798
2016	\$880,583	\$12,320	\$892,903
2017	\$904,942	\$499,520	\$1,403,942
2018	\$807,501	\$4,000	\$811,50
2019	\$1,795,832	\$18,000	\$1,813,832
2020	\$2,613,986	\$15,453	\$2,629,43
2021	\$939,268	\$5,372	\$944,640
2022	\$1,193,837	\$3,951	\$1,197,78
2023	\$1,359,361	\$51,154	\$1,410,513
2024	\$450,505	\$16,429	\$466,934



College of Humanities 2024 Awards

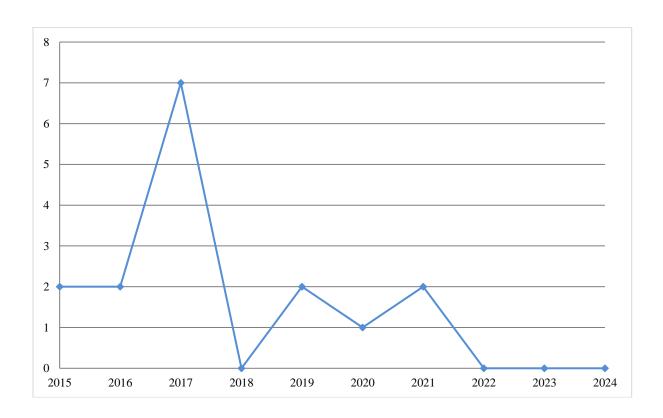
Researcher	Role	Sponsor	Prime Sponsor	<u>Title</u>	Beg Date	End Date	Account	Amount
Asian and Ned	ar Easter	n Lang						
Belnap, Kirk	PI	Institute of International Education	National Security Education Program	Arabic Flagship Student Support	Mar-24	Mar-25	R0303226	\$26,500
Christensen, Matthew	PI	Institute of International Education	National Security Education Program	Chinese Flagship Student Support	Mar-24	Mar-25	Ro303227	\$57,164
Comparative .	Arts & Le	etters						
Kramer, Nate	PI	Finnish National Agency for Education		Support for the Teaching of Finnish Language and Culture	Jan-22	Dec-23	R0570036	\$2,163
Kramer, Nate	PI	Finnish National Agency for Education		Support for the Teaching of Finnish Language and Culture	Jan-24	Dec-25	R0570038	\$7,096
Kramer, Nate	PI	Finnish National Agency for Education		Support for the Teaching of Finnish Language and Culture	Jan-24	Dec-25	R0570038	\$7,170
Yamada, Marc	PI	University of Utah	Department of Education	Intermountain Consortium for Asian and Pacific Studies Undergraduate FLAS Program 2022	Aug-22	Aug-24	R0303097	\$257,745
Yamada, Marc	PI	University of Utah	Department of Education	Intermountain Consortium for Asian and Pacific Studies Undergraduate NRC Program 2022	Aug-22	Aug-25	R0303112	\$109,096

College of Humanities Annual Report 2024 | 53

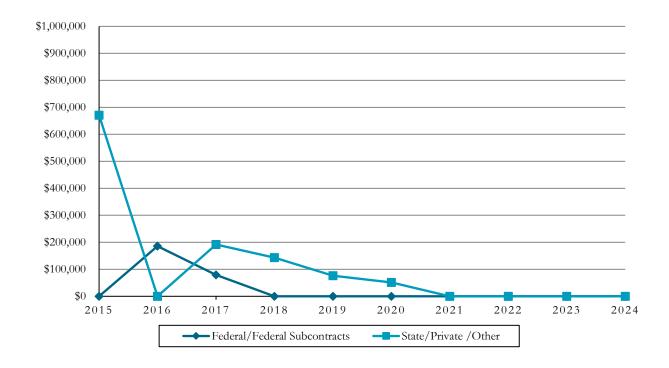


Department		# of Faculty Submitting	# of Proposals Submitted	# of Awards*	Dollars Awarded*
Law School	TOTALS	0	0	0	\$0 \$0

^{*}Number of Awards are counted by PI only, while total Dollars Awarded is split between all researchers



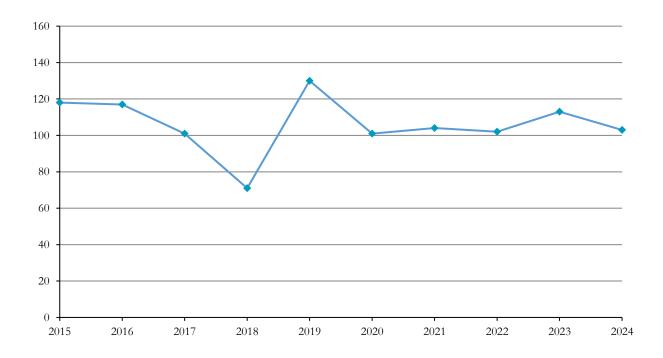
	Grants/Con	ntracts	
Year	Federal/Federal	State/Private	Total
	Subcontracts		
2015	\$0	\$670,637	\$670,637
2016	\$185,790	\$0	\$185,790
2017	\$79,189	\$191,800	\$270,989
2018	\$0	\$143,423	\$143,423
2019	\$0	\$76,117	\$76,117
2020	\$0	\$51,568	\$51,568
2021	\$0	\$0	\$0
2022	\$0	\$0	\$0
2023	\$0	\$0	\$0
2024	\$0	\$0	\$0



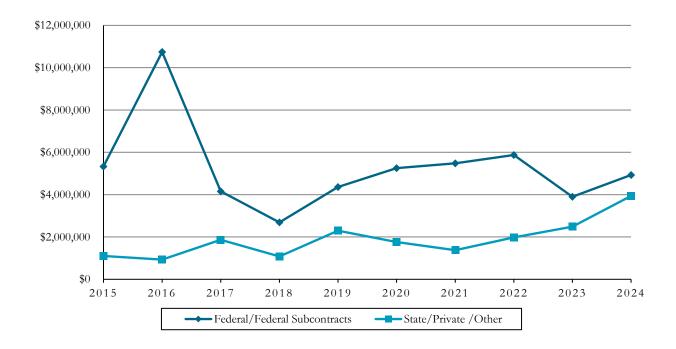


Department	# of	# of	# of Awards*	Dollars Awarded*
	Faculty	Proposals		
	Submitting	Submitted		
Biology	12	21	11	\$3,278,634
Cell Biology & Physiology	12	23	13	\$2,037,490
Exercise Science	4	4	2	\$211,780
Microbiology & Molecular Biology	6	10	4	\$757,883
Monte L. Bean Life Science Museum	0	0	0	\$0
Nutrition, Dietetics & Food Science	8	12	5	\$185,468
Plant & Wildlife Sciences	17	27	19	\$2,242,304
Public Health	4	5	7	\$158,350
TOTALS	63	103	61	\$8,871,909

^{*}Number of Awards are counted by PI only, while total Dollars Awarded is split between all researchers



	Grants/Co	ontracts	
Year	Federal/Federal Subcontracts	State/Private /Other	Total
2015	\$5,327,507	\$1,099,440	\$6,426,947
2016	\$10,743,176	\$929,921	\$11,673,097
2017	\$4,154,421	\$1,869,843	\$6,024,264
2018	\$2,688,968	\$1,082,714	\$3,771,682
2019	\$4,363,993	\$2,301,116	\$6,665,109
2020	\$5,256,149	\$1,760,079	\$7,016,228
2021	\$5,477,453	\$1,371,716	\$6,849,169
2022	\$5,871,426	\$1,980,587	\$7,852,013
2023	\$3,899,724	\$2,486,855	\$6,386,579
2024	\$4,932,104	\$3,939,805	\$8,871,909



College of Life Sciences 2024 Awards

Researcher	<u>Role</u>	Sponsor	<u>Prime</u> <u>Sponsor</u>	<u>Title</u>	Beg Date	End Date	Account	Amount
Biology								
Adams, Byron	PI	National Science Foundation		Integrating genomic and phenotypic analyses to understand microbial life in Antarctic soils	Apr-22	Mar-26	R0112480	\$20,531
Adams, Byron	PI	University of Colorado, Boulder	National Science Foundation	LTER: The Roles of Legacy and Ecological Connectivity in a Polar Desert Ecosystem	Sep-23	Aug-29	R0303203	\$63,926
Adams, Byron	PI	University of Colorado, Boulder	National Science Foundation	LTER: The Roles of Legacy and Ecological Connectivity in a Polar Desert Ecosystem	Sep-23	Aug-29	R0303203	\$98,788
Bailey, Matt	PI	National Institutes of Health		Genetic predisposition and misdiagnosis of cancer in All of Us participants	Jul-24	Jun-27	R0102136	\$217,190
Bailey, Matt	PI	University of Virginia		Phosphorylation Sites	May-23	Apr-24	Ro802056	\$50,000
Johnson, Robert	COI	Utah Division of Wildlife Resources		Wright Fishhook Cactus Range-wide Population Sampling	Jul-24	Jun-25	R0402418	\$16,500
Kauwe, Keoni	COI	Washington State University	National Institutes of Health	Natives Engaged in Alzheimer's Research	Aug-21	Apr-25	R0303014	\$199,515
Nelson, Riley	COI	US Geological Survey	Bureau of Land Management	Using museum collections and targeted sampling to create a comprehensive barcode database for the freshwater macroinvertebrates of the Upper Colorado River	Jul-22	Jan-25	R0202576	\$49,753
Payne, Samuel	COI	National Institutes of Health		Biochemical Consequences of Regiospecific Metabolic Bias in the Brain	May-20	Feb-25	R0102103	\$131,465
Payne, Samuel	COI	National Institutes of Health		Biochemical Consequences of Regiospecific Metabolic Bias in the Brain	May-20	Feb-25	R0102103	\$14,607
Payne, Samuel	PI	National Institutes of Health		Enhanced Sensitivity and Quantitative Precision for Single Cell Proteomics	Sep-22	May-25	R0102125	\$150,665
Payne, Samuel	COI	National Institutes of Health		Advanced Sample Preparation, Separation and Multiplexed Analysis for In-Depth Proteome Profiling of >1000 Single Cells Per Day	Aug-23	Jul-25	R0102129	\$259,092
Payne, Samuel	PI	National Institutes of Health		Diversity Supplement for Alyssa Nitz for GM147653	Jun-23	May-25	R0102130	\$65,450
Piccolo, Stephen	PI	National Institutes of Health		Curation and analysis of publicly available, molecular profiles from people with Down Syndrome	Jun-24	May-25	R0102134	\$155,205
Ridge, Perry	PI	Washington State University	National Institutes of Health	Natives Engaged in Alzheimer's Research	Aug-21	Apr-25	R0303014	\$199,515
Ridge, Perry	PI	Chan Zuckerberg Initiative		Multi-omics in Pacific Islanders with Dementia and Healthy Controls	Nov-24	Oct-26	R0502427	\$1,500,000
Wood, Rachel	PI	Conserve Utah Valley		Rapid data synthesis and expert assessment for Great Salt Lake	Nov-24	Dec-27	R0502431	\$86,435

Cell Biology & Physiology

Сен вынову	<u> x rnys</u>	เบเบฐฐ						
Bikman, Benjamin	PI	Anderson Advanced Ingredients		Exploring the metabolic and endocrine effects of allulose	May-23	Apr-26	R0602714	\$5,000
Edwards, Jeff	PI	National Institutes of Health		Ventral Tegmental Area GABA Neurons: Plasticity & Opiate Receptors at Inhibitory Inputs	Sep-24	Aug-27	R0102137	\$454,500
Hansen, Jason	COI	National Institutes of Health		Determining how redox changes affect optic tectum circuitry development and behavior.	Mar-24	Feb-27	R0102133	\$227,250
Hansen, Jason	PI	University of Massachusetts Amherst	National Institutes of Health	Activation of Nrf2 during embryonic development: mechanisms and consequences	Mar-22	Dec-24	Ro303064	\$28,773
Hansen, Jason	PI	Snow Canyon Therapeutics, Inc.		Assessment of wogonin products in vivo	Nov-22	Nov-25	R0602698	\$30,300
Hill, Jonathon	PI	National Institutes of Health		Developing a CRISPR-based forward- genetic screening method in embryonic zebrafish	Sep-24	Aug-27	R0102142	\$449,350
Hill, Jonathon	PI	Renew Diagnostics, LLC		Novel diagnostic and research sequencing approaches utilizing Nanopore	Jul-22	Jun-26	R0602694	\$77,753
Hill, Jonathon	COI	Utah State University		Improving methods of detecting neuron-derived cfDNA in blood plasma: a new diagnostic approach for neurodegenerative conditions	Jan-24	Dec-24	R0802057	\$20,000
Jenkins, Timothy	PI	University of Texas Health Science Center at San Antonio	National Institutes of Health	Elucidating the novel role of sperm in human recurrent pregnancy loss	Jul-24	Mar-25	Ro303235	\$13,574
Jenkins, Timothy	COI	Renew Diagnostics, LLC		Novel diagnostic and research sequencing approaches utilizing Nanopore	Jul-22	Jun-26	R0602694	\$77,753
Jenkins, Timothy	PI	Utah State University		Improving methods of detecting neuron-derived cfDNA in blood plasma: a new diagnostic approach for neurodegenerative conditions	Jan-24	Dec-24	Ro802057	\$20,000
Parrish, Robert	PI	Brain Research Foundation		The Role of Chloride in Seizure Termination	Jun-24	May-26	R0502415	\$80,000
Reynolds, Paul	PI	Flight Attendant Medical Research Institute, Inc.		Utilization of novel bromo-domain inhibitors to ameliorate secondhand smoke-induced COPD pathogenesis	Jul-23	Jun-25	R0502395	\$109,504
Suli, Arminda	PI	National Institutes of Health		Determining how redox changes affect optic tectum circuitry development and behavior.	Mar-24	Feb-27	R0102133	\$227,250
Suli, Arminda	PI	National Science Foundation		Graduate Research Fellowship-Bailey Calder	Sep-23	Aug-25	R0112523	\$53,000
Yorgason, Jordan	PI	National Institutes of Health		Neuroimmune mechanisms of alcohol reward	Jul-23	Apr-25	R0102127	\$163,484
Exercise Scie	nce							
Bailey, Bruce	COI	Anderson Advanced Ingredients		Exploring the metabolic and endocrine effects of allulose	May-23	Apr-26	R0602714	\$5,000
Bruening, Dustin	COI	University of Wisconsin-Madison	National Football League	Hamstring Injury Risk (HAMIR) Index: A framework for injury mitigation strategies through innovative imaging, biomechanics, and data analytics	Jul-21	Jun-25	R0602671	\$73,597
Hyldahl, Robert	PI	American Physiological Society		Nani Kaluhiokalani Fellowship Stipend	Sep-24	Aug-25	R0502421	\$28,300

Johnson, Wayne	PI	University of Wisconsin-Madison	National Football League	Hamstring Injury Risk (HAMIR) Index: A framework for injury mitigation strategies through innovative imaging, biomechanics, and data analytics	Jul-21	Jun-25	R0602671	\$73,597
Mitchell, Ulrike	COI	University of North Carolina - Chapel Hill	National Institutes of Health	Back Pain Consortium (BACPAC) Research Program Data Integration, Algorithm Development and Operations Management Center	Sep-23	May-24	R0303196	\$3,613
Mitchell, Ulrike	COI	University of North Carolina - Chapel Hill	National Institutes of Health	Back Pain Consortium (BACPAC) Research Program Data Integration, Algorithm Development and Operations Management Center	Sep-23	May-24	R0303197	\$4,607
Mitchell, Ulrike	COI	University of North Carolina - Chapel Hill	National Institutes of Health	Collaborative biomechanics analysis of best trial data within the BACPAC consortium	Jun-24	Aug-25	Ro303277	\$23,067
Microbiologi	u & Moi	lecular Biology						
Berges, Brad	PI	Ross Southern Labs		Production of large-scale viral antigens	Mar-22	Dec-24	R0602682	\$80,326
Berges, Brad	PI	Ross Southern Labs		Production of large-scale viral antigens	Mar-22	Dec-25	R0602682	\$112,404
Davis, Mary	COI	National Institutes of Health		Genetic predisposition and misdiagnosis of cancer in All of Us participants	Jul-24	Jun-27	R0102136	\$217,190
Grose, Julianne	PI	Rural Development Administration of the Republic of Korea		Establishing the international network for prevention and management of fire blight	Jan-22	Dec-24	R0570035	\$40,000
Weber, Scott	COI	National Institutes of Health		Neuroimmune mechanisms of alcohol reward	Jul-23	Apr-25	R0102127	\$163,484
Wilson, Eric	PI	Montana State University	National Institutes of Health	Role of the Staphylococcus aureus SaeR/S regulatory system in neutrophil evasion	Jul-21	May-25	Ro302905	\$144,480
Nutrition, Di	etetic &	& Food Science						
Ahlborn, Gene	PI	Western Dairy Center		Build Diary: Polydopamine Coated Magnet Beads as a Means for Identification and Removal of Pathogens from Milk and Milk Products	Jun-24	May-26	R0502416	\$48,168
Ahlborn, Gene	PI	Rescue Food		Evaluation of Yogurt Stored Outside of Refrigeration Temperatures	Sep-24	May-25	Ro502423	\$11,000
Ahlborn, Gene	PI	Welfare and Self- Reliance Services, The Church of Jesus Christ of Latter-day Saints		Pathogen Analysis for Peanut Butter	Mar-1	Dec-24	R0702021	\$26,500
Ahlborn, Gene	PI	Deseret Meats - The Church of Jesus Christ of Latter-day Saints		Pathogen Analysis for Meat Products Produced at Deseret Meats	Mar-1	Dec-24	R0702022	\$44,800
Dunn, Mike	PI	Welfare and Self- Reliance Services, The Church of Jesus Christ of Latter-day Saints		BYU Quality Assurance Laboratory	Jan-1	Dec-24	R0702023	\$27,500
Pike, Oscar	COI	Welfare and Self- Reliance Services, The Church of Jesus Christ of Latter-day Saints		BYU Quality Assurance Laboratory	Jan-1	Dec-24	R0702023	\$27,500

Plant & Wildlife Sciences

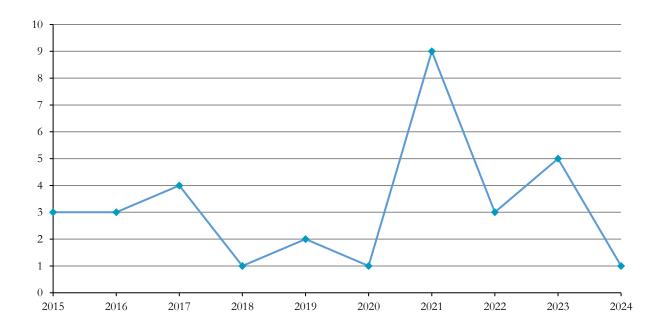
Plant & Wild	life Sci	ences						
Aanderud, Zach	COI	National Science Foundation		Collaborative Research: Network Cluster: Dust in the Critical Zone from the Great Basin to the Rocky Mountains	Sep-21	Aug-25	R0112444	\$26,272
Abbott, Ben	COI	Utah Department of Natural Resources		Megafire impacts on terrestrial and aquatic ecosystems and management interventions to protect wildlife habitat and watershed hydrology FY2024-25	Jul-23	Jun-25	R0402410	\$60,379
Anderson, Val	COI	Utah Division of Wildlife Resources		Wright Fishhook Cactus Range-wide Population Sampling	Jul-24	Jun-25	R0402418	\$16,500
Frandsen, Paul	PI	US Geological Survey	Bureau of Land Management	Using museum collections and targeted sampling to create a comprehensive barcode database for the freshwater macroinvertebrates of the Upper Colorado River	Jul-22	Jan-25	R0202576	\$49,753
Hansen, Neil	COI	Department of Agriculture		Smart Bluetooth Stakes - A Low-Cost Engineering Approach to High- Density Soil Surveillance for Precision Crop and Water Management	Jul-24	Jun-27	R0202612	\$198,410
Hansen, Neil	PI	Utah State University	Department of Agriculture	Identifying Stacked Conservation Practices that Optimize Water Use in Agriculture: Phase II	Jul-22	Jun-25	R0303151	\$70,068
Hopkins, Bryan	PI	US Geological Survey		USGS - Soil Analysis	Nov-24	Sep-25	R0202627	\$8,452
Hopkins, Bryan	PI	Soil Science Society of America		SSSA NAPT Contract	Jan-24	Dec-24	R0502406	\$55,000
Hopkins, Bryan	PI	Soil Science Society of America		NAPT Contracts for 2025-26	Jan-25	Dec-26	Ro502428	\$110,000
Hopkins, Bryan	PI	Soil Science Society of America		NAPT Contracts for 2025-26	Jan-25	Dec-26	R0502429	\$152,000
Hulet, April	COI	Bureau of Land Management		Assessing Novel Seed Coatings and Sowing Techniques for Improving the Establishment of Native Seed	Sep-24	Sep-25	R0202622	\$49,920
Hulet, April	PI	Utah Division of Wildlife Resources		Wright Fishhook Cactus Range-wide Population Sampling	Jul-24	Jun-25	R0402418	\$17,000
Larsen, Randy	PI	Army, Dugway Proving Grounds	Department of Defense	Monitoring of Natural Resources with Remote Cameras, Photo Database and Automation Algorithm- Dugway Proving Ground, UT	Sep-19	Mar-26	R0202529	\$36,025
Larsen, Randy	PI	Utah Reclamation Mitigation and Conservation Commission		Avian Abundance and Movement near Provo Airport, Provo River Delta Restoration Project	Jan-23	Dec-27	R0202586	\$35,000
Larsen, Randy	PI	Utah Reclamation Mitigation and Conservation Commission		Study of Sage Grouse in the Strawberry Valley	Jul-24	Jun-29	R0202619	\$65,000
Larsen, Randy	PI	Utah Division of Wildlife Resources	US Fish and Wildlife Service	Spatial Ecology of Chukar Partridge Brood in Relation to Artificial Water Sources	Jul-22	Jun-25	R0303150	\$12,234
Larsen, Randy	PI	Utah Division of Wildlife Resources	Bureau of Land Management	Sagebrush management for pygmy rabbit conservation	Jul-24	Jun-27	Ro303249	\$98,596
Larsen, Randy	COI	Sportsmen for Fish and Wildlife		Baseline Information and Monitoring of Mule Deer (Odocoileus hemionus) in Southeast Idaho's Portneuf Data Analysis Unit (DAU)	Aug-24	Jun-27	R0502422	\$351,091

Madsen, Matthew	PI	Bureau of Land Management		Assessing Novel Seed Coatings and Sowing Techniques for Improving the Establishment of Native Seed	Sep-24	Sep-25	R0202622	\$49,920
Maughan, Jeff	PI	Department of Agriculture		Sequencing and assembly of cereal wild relatives genomes	Apr-22	Apr-27	R0152023	\$100,000
McMillan, Brock	COI	Army, Dugway Proving Grounds	Department of Defense	Monitoring of Natural Resources with Remote Cameras, Photo Database and Automation Algorithm- Dugway Proving Ground, UT	Sep-19	Mar-26	R0202529	\$36,025
McMillan, Brock	PI	Sportsmen for Fish and Wildlife		Baseline Information and Monitoring of Mule Deer (Odocoileus hemionus) in Southeast Idaho's Portneuf Data Analysis Unit (DAU)	Aug-24	Jun-27	R0502422	\$351,091
Petersen, Steve	PI	US Fish and Wildlife Service		Natural Resources Program, Utah Test and Training Range, Utah and Nevada	May-24	Mar-26	R0202608	\$150,000
Petersen, Steve	PI	Nevada Department of Wildlife		Evaluation and improvement of springbox restoration in the Sheldon National Wildlife Refuge	Jul-24	Jun-25	AW02002	\$73,690
Smith, Tom	PI	Polar Bears International		Polar Bear Research	Aug-23	Aug-26	R0502411	\$9,500
St Clair, Sam	PI	Utah Department of Natural Resources		Megafire impacts on terrestrial and aquatic ecosystems and management interventions to protect wildlife habitat and watershed hydrology FY2024-25	Jul-23	Jun-25	R0402410	\$60,379
Public Healtl	h							
Beard, John	PI	University of Utah Rocky Mountain Center for Occupational and Environmental Health	Centers for Disease Control and Prevention	Sustainable, Low-cost, Radon Mitigation Strategies for K-12 Schools and Employees	Jul-23	Dec-24	R0303206	\$2,249
Crandall, Ali	PI	National Council on Family Relations		Online Family Life Education Modules Across Three Generations	Sep-24	Nov-25	R0502425	\$5,000
Johnston, Jim	COI	University of Utah Rocky Mountain Center for Occupational and Environmental Health	Centers for Disease Control and Prevention	Sustainable, Low-cost, Radon Mitigation Strategies for K-12 Schools and Employees	Jul-23	Dec-24	R0303206	\$2,183
Nelson, Erik	PI	Indiana University	National Institutes of Health	Examining the daily stress of mid-life adults in the built and natural environment	Dec-22	Nov-24	R0303138	\$17,260
Nelson, Erik	PI	Virginia Commonwealth University	National Institutes of Health	Assessing residential neighborhood exposome exposures and the associations with cancer incidence	Jul-23	Jun-25	R0303205	\$55,263
Thacker, Evan	PI	Columbia University	National Institutes of Health	Effects of vascular risk factors on risk for dementia and stroke after late- onset epilepsy (EpilepsyCOG)	Jul-22	Mar-25	R0303086	\$63,140
Thacker, Evan	PI	Columbia University	National Institutes of Health	Effects of vascular risk factors on risk for dementia and stroke after late- onset epilepsy (EpilepsyCOG)	Jul-22	Mar-25	R0303086	\$7,015
Thygerson, Steve	PI	Intermountain Health Care Health Services, Inc.		Equipment Lease and Student Support	Jun-24	Apr-27	R0602736	\$6,240

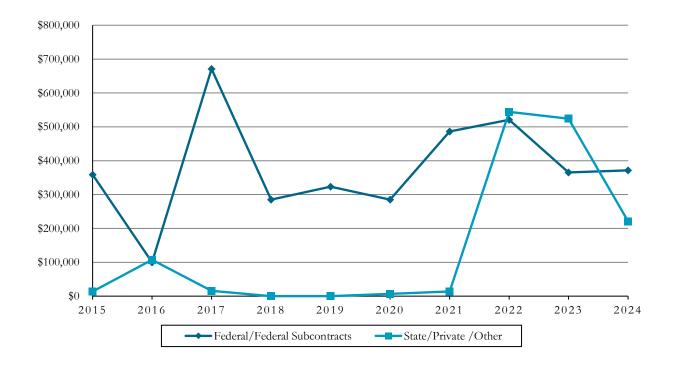


Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards*	Dollars Awarded*
School of Accountancy	0	0	0	\$0
Ballard Center for Social Impact	0	0	0	\$0
Finance & Managerial Economics	0	0	0	\$0
Global Management Center	0	0	1	\$290,466
Information Systems	0	0	0	\$0
Management	0	0	2	\$80,780
Marketing & Global Supply Chain	0	0	0	\$0
Romney Institute of Public Management	1	1	2	\$221,426
TOTALS	1	1	5	\$592,672

^{*}Number of Awards are counted by PI only, while total Dollars Awarded is split between all researchers



	Grants/Co		
Year	Federal/Federal	State/Private	Total
	Subcontracts	/Other	
2015	\$358,690	\$13,910	\$372,600
2016	\$100,000	\$107,500	\$207,500
2017	\$671,051	\$15,600	\$686,651
2018	\$285,000	\$0	\$285,000
2019	\$323,439	\$0	\$323,439
2020	\$285,000	\$6,750	\$291,750
2021	\$486,139	\$13,960	\$500,099
2022	\$520,710	\$544,185	\$1,064,895
2023	\$365,466	\$524,264	\$889,730
2024	\$371,246	\$221,426	\$592,672



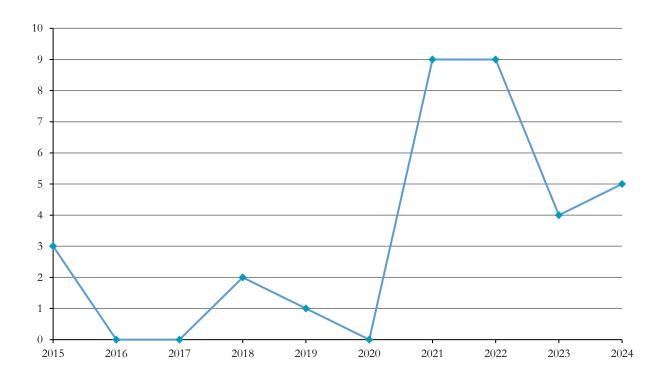
Marriott School of Business 2024 Awards

<u>Researcher</u>	<u>Role</u>	<u>Sponsor</u> <u>Prime</u> <u>Sponsor</u>		<u>Title</u>	<u>Beg</u> <u>Date</u>	<u>End</u> <u>Date</u>	Account	<u>Amount</u>		
Global Manag	Global Management Center									
Money, Bruce	PI	Department of Education		2022-2026 Center for International Business Education Grant	Oct-22	Sep-25	R0132025	\$290,466		
Management										
Madsen, Peter	PI	Clemson National Science Foundation		Occupational Exoskeletons and the Human-Technology Partnership: Achieving Scale and Integration into the Future of Work	Jan-22	Dec-24	R0303040	\$40,004		
Madsen, Peter	PI	Clemson University	National Science Foundation	Occupational Exoskeletons and the Human-Technology Partnership: Achieving Scale and Integration into the Future of Work	Jan-22	Dec-25	R0303040	\$40,776		
Romney Insti	tute of Pı	ıblic Service &	Ethics							
Heist, Dan	PI	Association of Fundraising Professionals		Raising Donor-Advised Fund (DAF) Dollars: Best Practices from Experienced Fundraisers	Dec-22	Jul-25	Ro502385	\$19,800		
Owens, Brad	PI	Georgia State University	John Templeton Foundation	Exploring Interventions for the Development of Intellectual Humility in Leadership	Jul-22	Jun-25	Ro502374	\$47,516		
Witesman, Eva	COI	The University of Alabama	National Oceanic & Atmospheric Administration	Improved Hydrologic Prediction Services for Resilience with GEOGloWS	Apr-24	Mar-25	R0303247	\$154,110		

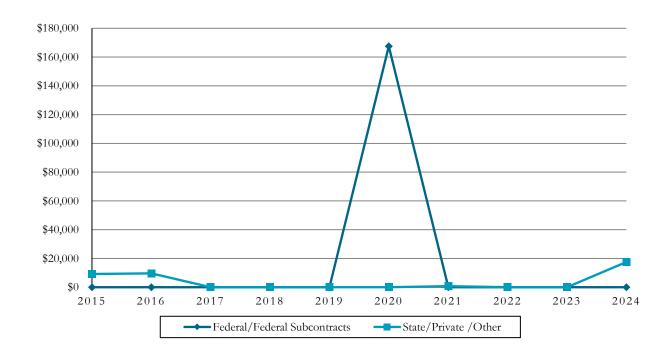


Department		# of Faculty Submitting	# of Proposals Submitted	# of Awards*	Dollars Awarded*
Nursing	TOTALS	<u>5</u>	5	3	\$17,550 \$17,550

^{*}Number of Awards are counted by PI only, while total Dollars Awarded is split between all researchers

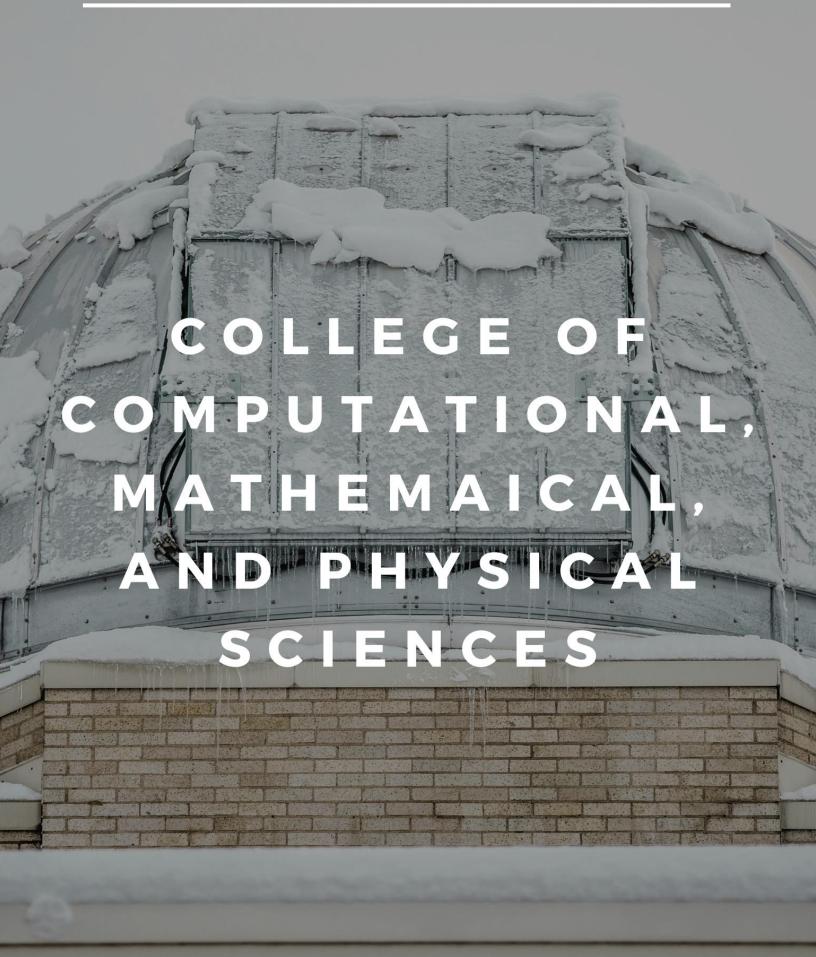


	Grants/Con	tracts	
Year	Federal/Federal	State/Private	Total
	Subcontracts	/Other	
2015	\$0	\$9,200	\$9,200
2016	\$0	\$9,626	\$9,626
2017	\$0	\$0	\$0
2018	\$0	\$0	\$0
2019	\$0	\$0	\$0
2020	\$167,500	\$0	\$167,500
2021	\$0	\$750	\$750
2022	\$0	\$0	\$0
2023	\$0	\$0	\$0
2024	\$0	\$17,550	\$17,550



College of Nursing 2024 Awards

<u>Role</u>	<u>Sponsor</u>	<u>Prime</u> Sponsor	<u>Title</u>	<u>Beg</u> <u>Date</u>	<u>End</u> Date	Account	Amount
PI	Walter M. Lewis Family Foundation		Cervical Cancer and HPV Vaccination Uptake in Zambia	Jan-24	Dec-24	Ro502408	\$1,190
COI	Walter M. Lewis Family Foundation		A Mentored Project to Increase HPV Vaccination Uptake in Tongan Youth	Jan-24	Dec-24	R0502409	\$1,013
COI	Walter M. Lewis Family Foundation		Cervical Cancer and HPV Vaccination Uptake in Zambia	Jan-24	Dec-24	R0502408	\$1,155
COI	Walter M. Lewis Family Foundation		A Mentored Project to Increase HPV Vaccination Uptake in Tongan Youth	Jan-24	Dec-24	R0502409	\$1,013
PI	The Douglas K. and Brooke B. Bates Family Foundation		Working with graduate students to improve health in a rural community: The Moab experience	May- 24	Apr-25	R0502410	\$5,000
COI	The Douglas K. and Brooke B. Bates Family Foundation		Working with graduate students to improve health in a rural community: The Moab experience	May- 24	Apr-25	R0502410	\$5,000
COI	Walter M. Lewis Family Foundation		Cervical Cancer and HPV Vaccination Uptake in Zambia	Jan-24	Dec-24	Ro502408	\$1,155
PI	Walter M. Lewis Family Foundation		A Mentored Project to Increase HPV Vaccination Uptake in Tongan Youth	Jan-24	Dec-24	R0502409	\$1,013
COI	Walter M. Lewis Family Foundation		A Mentored Project to Increase HPV Vaccination Uptake in Tongan Youth	Jan-24	Dec-24	R0502409	\$1,013
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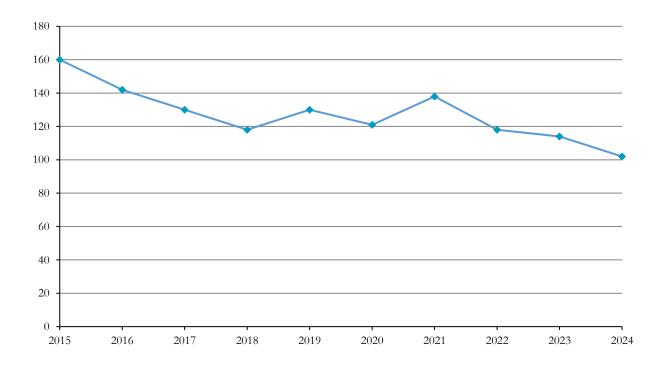


Summary by Departments

Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards*	Dollars Awarded*
Chemistry & Biochemistry	20	34	38	\$7,401,897
Computer Science	9	13	3	\$462,133
Geology	4	7	6	\$290,225
Mathematics	8	10	5	\$806,545
Mathematics Education	0	0	4	\$1,034,246
Physics & Astronomy	19	37	40	\$4,058,586
Statistics	1	1	0	\$0
TOTA	ALS 61	102	96	\$14,053,632

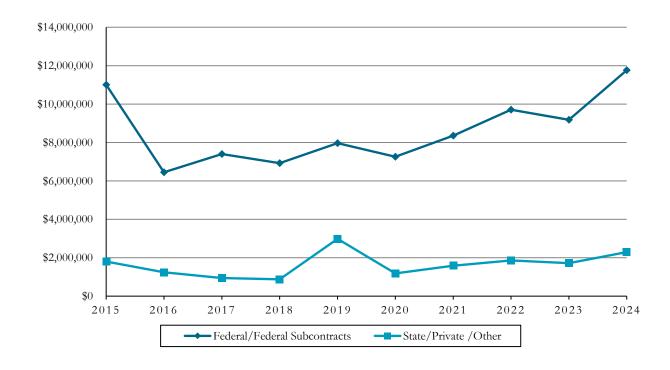
^{*}Number of Awards are counted by PI only, while total Dollars Awarded is split between all researchers

Proposal Submissions



Awards by Sources

	tracts	Grants/Cont	
Total	State/Private	Federal/Federal	Year
	/Other	Subcontracts	
\$12,812,372	\$1,803,190	\$11,009,182	2015
\$7,687,484	\$1,239,899	\$6,447,585	2016
\$8,344,045	\$944,244	\$7,399,801	2017
\$7,797,596	\$878,316	\$6,919,640	2018
\$10,951,176	\$2,983,216	\$7,967,960	2019
\$8,436,871	\$1,180,566	\$7,256,305	2020
\$9,939,748	\$1,580,974	\$8,358,774	2021
\$11,564,009	\$1,860,555	\$9,703,454	2022
\$10,985,991	\$1,806,164	\$9,179,827	2023
\$14,053,632	\$2,291,971	\$11,761,661	2024



College of Computational, Mathematical, and Physical **Sciences 2024 Awards**

Researcher	<u>Role</u>	<u>Sponsor</u>	<u>Prime</u> Sponsor	<u>Title</u>	Beg Date	End Date	Account	Amount
Chemistry &	Bioche	mistry						
Asplund, Matthew	COI	National Science Foundation		Probing Molecular Folding and Unfolding Rates Through Time- resolved Measurement of Ion-Neutral Collision Cross Sections	Jul-24	Jun-27	R0112539	\$124,088
Asplund, Matthew	COI	National Science Foundation		Probing Molecular Folding and Unfolding Rates Through Time- resolved Measurement of Ion-Neutral Collision Cross Sections	Jul-24	Jun-27	R0112539	\$63,273
Castle, Steven	PI	National Institutes of Health		New Methods for Synthesizing Bioactive Peptides	Aug-24	Jul-27	R0102135	\$440,904
Christensen, Ken	COI	National Institutes of Health		High Density 3D Printed Microfluidics for Cell-Based Biomedical Application		Aug-26	R0102131	\$16,553
Christensen, Ken	PI	Clemson University	National Institutes of Health	Development of a multiplexed assay in kinetoplastid parasites to identify Apr-21 Mar probes for glycolysis		Mar-25	R0302983	\$68,322
Christensen, Ken	PI	Clemson University	National Institutes of Health	Development of a multiplexed assay in kinetoplastid parasites to identify probes for glycolysis	Apr-21	Mar-25	Ro302983	\$6,423
Christensen, Ken	PI	Boston Children's Hospital	National Institutes of Health	CMG2 as a target for safe and effective treatment of endometriosis-associate pain	Sep-22	Aug-25	Ro303115	\$47,454
Christensen, Ken	PI	Boston Children's Hospital	National Institutes of Health	Functional requirement of CMG2 for endothelial cell chemotaxis and resulting angiogenesis	Sep-22	Aug-25	Ro303116	\$73,119
Christensen, Ken	PI	Clemson University	National Institutes of Health	Enolase inhibitors as therapeutic leads for Naegleria fowleri infections	Jun-23	May-25	R0303172	\$11,122
Dearden, David	PI	National Science Foundation		Probing Molecular Folding and Unfolding Rates Through Time- resolved Measurement of Ion-Neutral Collision Cross Sections	Jul-24	Jun-27	R0112539	\$124,088
Dearden, David	PI	National Science Foundation		Probing Molecular Folding and Unfolding Rates Through Time- resolved Measurement of Ion-Neutral Collision Cross Sections		Jun-27	R0112539	\$63,273
Ess, Dan	PI	Department of Energy		Theory of Main-group, P-Block Hydrocarbon Functionalization Sep-17 Sep-25 Ro2025 Reactions		R0202502	\$4,000	
Ess, Dan	PI	Department of Energy		Theory of Main-group, P-Block Hydrocarbon Functionalization Reactions	Sep-17	Sep-25	R0202502	\$74,427

Ess, Dan	PI	Rice University	National Institutes of Health	New Catalytic Methods for the Rapid Synthesis of N-Unprotected Chiral Aziridines and Amines	Apr-21	Mar-25	R0302902	\$28,930
Ess, Dan	PI	Chevron Phillips Chemical		Optimization of Homogeneous Alpha Oletfin Catalysts	Dec-13	Dec-24	R0602446	\$47,500
Ess, Dan	PI	Chevron Phillips Chemical		Optimization of Homogeneous Alpha Oletfin Catalysts	Dec-13	Dec-24	R0602446	\$100,000
Jensen, Grant	PI	National Institutes of Health		Structure and function of pathogenesis- associated bacterial structures by electron cryotomography	Apr-22	Mar-25	R0102117	\$369,480
Johnson, Jeremy	COI	National Science Foundation		PFI: Scale-up and Prototype Development of Organic Single- Crystalline Materials for Intense Terahertz Frequency Light Generation.	Mar-24	Feb-26	R0112532	\$275,000
Johnson, Jeremy	PI	Gordon and Betty Moore Foundation		Terahertz Control of Crystal Chirality	Aug-24	Aug-29	R0502419	\$554,789
Johnson, Jeremy	PI	Gordon and Betty Moore Foundation		Terahertz Control of Crystal Chirality	Aug-24	Aug-29	R0502419	\$674,186
Johnson, Jeremy	PI	Gordon and Betty Moore Foundation		Terahertz Control of Crystal Chirality - Interest Only	Aug-24	Aug-29	Ro502420	\$21,025
Johnson, Jeremy	COI	National Science Foundation		Equipment: MRI: Track 1 Acquisition of a multipurpose X-ray diffractometer for materials research	Jan-25	Dec-27	AW02004	\$75,719
Kelly, Ryan	COI	National Institutes of Health		Biochemical Consequences of Regiospecific Metabolic Bias in the Brain	May-20	Feb-25	R0102103	\$131,465
Kelly, Ryan	COI	National Institutes of Health		Biochemical Consequences of Regiospecific Metabolic Bias in the Brain	May-20	Feb-25	R0102103	\$14,607
Kelly, Ryan	PI	National Institutes of Health		In-depth and label-free proteome profiling of hundreds of single cells per day	Sep-22	Aug-25	R0102121	\$181,717
Kelly, Ryan	COI	National Institutes of Health		Enhanced Sensitivity and Quantitative Precision for Single Cell Proteomics	Sep-22	May-25	R0102125	\$150,665
Kelly, Ryan	PI	National Institutes of Health		Advanced Sample Preparation, Separation and Multiplexed Analysis for In-Depth Proteome Profiling of >1000 Single Cells Per Day	Aug-23	Jul-25	R0102129	\$259,092
Kelly, Ryan	PI	National Institutes of Health		Mass Spectrometry-Based Biochemical Analysis of Single Cells Beyond the Global Proteome (originally submitted title for 1/2023 was Single-Cell MS- Based Biochemical Analysis Beyond the Global Proteome	Sep-24	Jul-25	R0102140	\$469,543
Kelly, Ryan	PI	Mayo Clinic	National Institutes of Health	Mayo Clinic Center for Clinical Proteomics	Jun-22	May-25	R0303105	\$95,353
Linford, Matthew	PI	Restek Corporation		ALD on Materials for Sample Preparation and Chromatography, and SPME	Dec-20	Dec-24	R0602619	\$78,000
Michaelis, David	PI	National Science Foundation		PFI: Scale-up and Prototype Development of Organic Single- Crystalline Materials for Intense Terahertz Frequency Light Generation.	Mar-24	Feb-26	R0112532	\$275,000
Michaelis, David	COI	Chevron Phillips Chemical		Optimization of Homogeneous Alpha Oletfin Catalysts	Dec-13	Dec-24	R0602446	\$47,500

Michaelis, David	COI	Chevron Phillips Chemical		Optimization of Homogeneous Alpha Oletfin Catalysts	Dec-13	Dec-24	R0602446	\$100,000
Moody, James	PI	National Institutes of Health		TELSAM polymers are powerful crystallization chaperones meriting continued investigation (Diversity Supplement)	Jun-24	Apr-25	R0102139	\$90,516
Moody, James	PI	National Institutes of Health		Expanding the capabilities and usage of the TELSAM protein crystallization chaperone	Sep-24	Aug-29	R0102141	\$278,848
Price, John	PI	National Institutes of Health		Biochemical Consequences of Regiospecific Metabolic Bias in the Brain	May-20	Feb-25	R0102103	\$131,465
Price, John	PI	National Institutes of Health		Biochemical Consequences of Regiospecific Metabolic Bias in the Brain	May-20	Feb-25	R0102103	\$14,607
Price, John	COI	Clemson University	National Institutes of Health	Development of a multiplexed assay in kinetoplastid parasites to identify probes for glycolysis	Apr-21	Mar-25	Ro302983	\$68,322
Price, John	COI	Clemson University	National Institutes of Health	Development of a multiplexed assay in kinetoplastid parasites to identify probes for glycolysis	Apr-21	Mar-25	Ro302983	\$6,423
Price, John	PI	University of Utah	National Institutes of Health	LOOH-induced muscle atrophy with age	Feb-22	Nov-24	R0303084	\$10,055
Price, John	PI	University of Utah	National Institutes of Health	LOOH-induced muscle atrophy with age	Feb-22	Nov-24	R0303084	\$1,117
Price, John	COI	Boston Children's Hospital	National Institutes of Health	CMG2 as a target for safe and effective treatment of endometriosis-associate pain	Sep-22	Aug-25	Ro303115	\$47,454
Price, John	COI	Boston Children's Hospital	National Institutes of Health	Functional requirement of CMG2 for endothelial cell chemotaxis and resulting angiogenesis	Sep-22	Aug-25	Ro303116	\$73,119
Savage, Paul	PI	Scripps Research Institute	National Institutes of Health	Multidimensional development of high- affinity anti-glycan antibodies to fight deadly bacterial infections	May-23	Apr-25	Ro303171	\$192,026
Savage, Paul	PI	Scripps Research Institute	National Institutes of Health	Mechanistic studies of combination adjuvants to target B cells in vaccines	Apr-23	Mar-25	R0303230	\$81,000
Savage, Paul	PI	Scripps Research Institute	National Institutes of Health	Mechanistic studies of combination adjuvants to target B cells in vaccines	Apr-23	Mar-25	R0303230	\$9,000
Savage, Paul	PI	Scripps Research Institute	National Institutes of Health	Mechanistic studies of combination adjuvants to target B cells in vaccines	Apr-23	Mar-25	R0303152	\$81,000
Smith, Stacey	PI	National Science Foundation		Equipment: MRI: Track 1 Acquisition of a multipurpose X-ray diffractometer for materials research	Jan-25	Dec-27	AW02004	\$75,719
Stowers, Kara	PI	National Science Foundation		Optimization of CO2 to methanol production through rapid nanoparticle synthesis utilizing MOF thin films and mechanistic studies.	Sep-24	Aug-27	R0112536	\$327,289
Stowers, Kara	PI	National Science Foundation		Optimization of CO2 to methanol production through rapid nanoparticle synthesis utilizing MOF thin films and mechanistic studies.	Sep-24	Aug-27	R0112536	\$139,758
Stowers, Kara	COI	National Science Foundation		Equipment: MRI: Track 1 Acquisition of a multipurpose X-ray diffractometer for materials research	Jan-25	Dec-27	AW02004	\$75,719

Van Ry, Pam	PI	Jain Foundation Inc.		Galectin-1 improves chronic macrophage polarization exhibited in dysferlinopathy	Jan-24	Dec-24	R0502405	\$167,751
Willardson, Barry	PI	National Institutes of Health		Molecular Mechanism of Folding of Nsp12 and Assembly of the SARS-CoV- 2 RNA Polymerase Complex by the Cytosolic Chaperonin CCT	Sep-24	Aug-27	R0102143	\$447,548
Woolley, Adam	COI	National Institutes of Health		High Density 3D Printed Microfluidics for Cell-Based Biomedical Applications	Sep-23	Aug-26	R0102131	\$16,553
Computer Sc	ience							
Crandall, Jacob	PI	National Science Foundation		Graduate Research Fellowship – Melissa Morris	Jul-24	Aug-25	R0112550	\$53,000
Crandall, Jacob	PI	Carnegie Mellon University	Office of Naval Research	Success: Self-Assessment and Understanding of Competence and Conditions to Ensure System Success	Jun-18	May-24	R0302806	\$40,000
Goodrich, Michael	COI	Carnegie Mellon University	Office of Naval Research	Success: Self-Assessment and Understanding of Competence and Conditions to Ensure System Success	Jun-18	May-24	R0302806	\$40,000
Hughes, Amanda	COI	National Science Foundation		CyberCorps Scholarship for Service: Building Research-minded Cyber Leaders	Jan-24	Dec-28	R0112529	\$77,663
Hughes, Amanda	COI	National Science Foundation		CyberCorps Scholarship for Service: Building Research-minded Cyber Leaders	Jan-24	Dec-28	R0112530	\$165,352
Page, Xinru	PI	National Science Foundation		Collaborative Research: CIRC: Planning-C: Building a Safer Cyberspace by Creating a Centralized Research Infrastructure to Track and Mitigate Privacy Harms	Jun-24	Nov-25	R0112545	\$86,118
Geology								
Carling, Greg	PI	National Science Foundation		Collaborative Research: Network Cluster: Dust in the Critical Zone from the Great Basin to the Rocky Mountains	Sep-21	Aug-25	R0112444	\$27,068
Carling, Greg	COI	Great Basin National Park		Great Basin National Park Cooperative Ecosystem Studies Unit (CESU): Snake Creek Water Diversion Assessment	Aug-24	Jul-27	R0202621	\$54,912
LeMonte, Josh	COI	National Science Foundation		Integrating genomic and phenotypic analyses to understand microbial life in Antarctic soils	Apr-22	Mar-26	R0112480	\$20,531
LeMonte, Josh	PI	Great Basin National Park		Great Basin National Park Cooperative Ecosystem Studies Unit (CESU): Snake Creek Water Diversion Assessment	Aug-24	Jul-27	R0202621	\$54,912
Radebaugh, Jani	PI	National Aeronautics and Space Administration	National Aeronautics and Space Administration	Field Trip to the Namib Sand Sea as an Analog Experience for the Dragonfly Mission Landing Site on Titan	May-24	May-25	Ro162054	\$96,679
Radebaugh, Jani	PI	Johns Hopkins University	National Aeronautics and Space Administration	Dragonfly Rotorcraft Lander for Titan - Phase B Addition	Apr-22	Aug-28	R0303070	\$18,000
Radebaugh, Jani	PI	Johns Hopkins University	National Aeronautics and Space Administration	Dragonfly Rotorcraft Lander for Titan - Phase B Addition	Apr-22	Aug-28	R0303070	\$12,270
Radebaugh, Jani	PI	Johns Hopkins University	National Aeronautics and Space Administration	Dragonfly Rotorcraft Lander for Titan - Phase B Addition	Apr-22	Aug-28	R0303070	\$5,853

Mathematics	3							
Allen, Mark	PI	National Science Foundation		PDE Conference in Moab	Apr-24	Mar-25	R0112537	\$35,875
Barker, Blake	COI	National Science Foundation		XTRIPODS: Advances and novel applications of closed-loop data assimilation, and educational improvements to data science courses	Sep-24	Aug-26	R0112554	\$99,939
Dos Anjos Obata, Davi	PI	National Science Foundation		Ergodic Theory for Weakly Hyperbolic Dynamical Systems	Sep-24	Aug-27	R0112548	\$184,985
Jarvis, Tyler	COI	Tula Health, Inc.		TULA health - Non-Invasive health sensing	Apr-21	Feb-27	R0602659	\$128,069
Nielsen, Pace	PI	Simons Foundation		Computational Number Theory and Ring Theory	Sep-22	Dec-27	Ro502380	\$8,400
Pratt, Kyle	PI	National Science Foundation		LEAPS-MPS: Rational points, Diophantine problems, and L-functions	Sep-24	Aug-26	R0112546	\$249,338
Whitehead, Jared	PI	National Science Foundation		XTRIPODS: Advances and novel applications of closed-loop data assimilation, and educational improvements to data science courses	Sep-24	Aug-26	R0112554	\$99,939
Mathematics	s Educa	ation						
Leatham, Keith	COI	National Science Foundation		Collaborative Research: Learning to Build on MOSTs	Oct-24	Sep-28	R0112555	\$318,589
Leatham, Keith	COI	National Science Foundation		Collaborative Research: Designing a Teacher Learning Sequence for Building on Mathematical Opportunities in Student Thinking (MOSTs)	Oct-24	Sep-28	R0112556	\$13,200
Peterson, Blake	PI	National Science Foundation		Collaborative Research: Learning to Build on MOSTs	Oct-24	Sep-28	R0112555	\$318,589
Peterson, Blake	PI	National Science Foundation		Collaborative Research: Designing a Teacher Learning Sequence for Building on Mathematical Opportunities in Student Thinking (MOSTs)	Oct-24	Sep-28	R0112556	\$13,200
Teuscher, Dawn	PI	National Science Foundation		Collaborative Research: Quantifying Curricular Reasoning as a Critical Practice in Teaching Mathematics	Aug-22	Jul-26	R0112501	\$225,569
Teuscher, Dawn	PI	National Science Foundation		Collaborative Research: Quantifying Curricular Reasoning as a Critical Practice in Teaching Mathematics- Participant Costs	Aug-22	Jul-26	R0112502	\$145,100
Physics & As	tronon	เน						
Allred, David	PI	National Aeronautics and Space Administration		Advanced A1 mirrors with passivated LiF for environmentally stable 1-meter class UV space telescopes	Jan-23	Jan-26	R0162046	\$36,118
Allred, David	PI	Photonic Cleaning Technologies LLC	National Aeronautics and Space Administration	Polymer Barrier, Protection and Cleaning for UVOIR and X-Ray Mirrors	Aug-24	Feb-25	Ro303257	\$44,220
Anderson, Brian	COI	University of Iowa	National Institutes of Health	Protecting Teacher's Voices: Investigating Risk Factors, Conducting Analysis	May-24	Apr-25	R0303221	\$46,026
Anderson, Brian	PI	University of Iowa	National Institutes of Health	Protecting Teacher's Voices: Investigating Risk Factors, Conducting Analysis	May-24	Apr-25	R0303222	\$48,452

Anderson, Brian	PI	Kansas City National Security Campus	Department of Energy	Vibrational Focusing using Time Reversal with a Customized Spatial Extent	Oct-24	Aug-25	R0303268	\$50,000
Bergeson, Scott	PI	National Science Foundation		Collaborative Research Proposal: Ultracold Neutral Plasmas as High Energy Density Plasma Simulators	Jun-20	May-24	R0112438	\$32,003
Bergeson, Scott	PI	National Science Foundation		Collaborative Research Proposal: Ultracold Neutral Plasmas as High Energy Density Plasma Simulators	Jun-20	Jun-25	R0112438	\$42,000
Bergeson, Scott	PI	Army Research Office		Electron density distribution imaging in colliding plasma bullets	Dec-24	Sep-25	AW02006	\$60,000
Colton, John	COI	National Science Foundation		REU Site: Physics and Astronomy Research at Brigham Young University	May-24	Apr-27	R0112534	\$18,537
Colton, John	COI	National Science Foundation		REU Site: Physics and Astronomy Research at Brigham Young University	May-24	Apr-27	R0112534	\$50,994
Colton, John	COI	National Science Foundation		REU Site: Physics and Astronomy Research at Brigham Young University	May-24	Apr-27	R0112535	\$70,418
Colton, John	COI	National Science Foundation		REU Site: Physics and Astronomy Research at Brigham Young University	May-24	Apr-27	R0112535	\$160,714
Davis, Robert	PI	Tula Health, Inc.		TULA health - Non-Invasive health sensing	Apr-21	Feb-27	R0602659	\$131,950
Della Corte, Dennis	PI	National Institutes of Health		Engineering Enzymes for Improved Stability and Retained Function via Rapid Design-Build-Test-Learn Cycles integrating AI/Physics based predictions with Cell-free Protein Synthesis Experimental Testing	Aug-24	Jul-27	R0102138	\$448,723
Frandsen, Benjamin	PI	National Science Foundation		LEAPS-MPS: Controllable Disorder as a Path to Many-Body Entanglement in Quantum Magnets	Sep-24	Aug-26	R0112547	\$249,997
Frandsen, Benjamin	PI	Department of Energy		Probing Short-Range Structure and Magnetism In Next-Generation Energy Conversion Materials	Sep-21	Aug-25	R0202542	\$152,422
Frandsen, Benjamin	COI	National Science Foundation		Equipment: MRI: Track 1 Acquisition of a multipurpose X-ray diffractometer for materials research	Jan-25	Dec-27	AW02004	\$75,719
Gee, Kent	PI	National Aeronautics and Space Administration		Fellowship - Advanced Air Vehicles Program	Sep-23	Sep-25	R0162049	\$64,000
Gee, Kent	PI	Vandenberg Air Force Base	Army	ASSESSING THE INFLUENCE OF SPACE LAUNCH AND LANDING NOISE ON SPECIES OF CONCERN AT VANDENBERG SPACE FORCE BASE	Feb-23	Feb-25	R0202585	\$132,377
Gee, Kent	PI	Vandenberg Air Force Base	Department of Defense	Measurements and modeling of downrange rocket launch environments around Vandenberg Space Force Base	Dec-24	Nov-25	R0202626	\$124,987
Gee, Kent	PI	Fish & Wildlife Foundation of Florida, Inc.	US Fish and Wildlife Services	Initial Starship launch noise measurements and comparative data analyses in support of determining ecological and other impacts	Jun-24	Jul-25	R0303232	\$21,406
Gee, Kent	PI	Blue Ridge Research and Consulting		Improving fidelity of low-frequency, ground-based outdoor acoustical measurements	May-24	May-25	R0602735	\$37,809

Gee, Kent	PI	ManTech International Corporation	Firefly Aerospace	Acoustic Measurements & Analysis of Firefly Alpha FLTA005 at SLC-2 on Vandenberg Space Force Base, California	Sep-24	Dec-24	R0602737	\$7,402
Gee, Kent	PI	ManTech International Corporation	Firefly Aerospace	Acoustic Measurements & Analysis of Firefly Alpha FLTA005 at SLC-2 on Vandenberg Space Force Base, California	Sep-24	Dec-24	R0602737	\$4,655
Hart, Grant	COI	Vandenberg Air Force Base	Army	ASSESSING THE INFLUENCE OF SPACE LAUNCH AND LANDING NOISE ON SPECIES OF CONCERN AT VANDENBERG SPACE FORCE BASE	Feb-23	Feb-25	R0202585	\$132,377
Hart, Grant	COI	Vandenberg Air Force Base	Department of Defense	Measurements and modeling of downrange rocket launch environments around Vandenberg Space Force Base	Dec-24	Nov-25	R0202626	\$124,987
Hart, Grant	COI	Fish & Wildlife Foundation of Florida, Inc.	US Fish and Wildlife Services	Initial Starship launch noise measurements and comparative data analyses in support of determining ecological and other impacts	Jun-24	Jul-25	R0303232	\$21,406
Hart, Grant	COI	ManTech International Corporation	Firefly Aerospace	Acoustic Measurements & Analysis of Firefly Alpha FLTA005 at SLC-2 on Vandenberg Space Force Base, California	Sep-24	Dec-24	R0602737	\$7,402
Hart, Grant	COI	ManTech International Corporation	Firefly Aerospace	Acoustic Measurements & Analysis of Firefly Alpha FLTA005 at SLC-2 on Vandenberg Space Force Base, California	Sep-24	Dec-24	R0602737	\$4,655
Hart, Gus	PI	Kansas City National Security Campus	Department of Energy	Trace Elements in Cluster Expansions	Apr-24	Aug-24	R0303231	\$51,000
Hart, Gus	PI	Kansas City National Security Campus	Department of Energy	Trace Elements in Cluster Expansions	May-24	Nov-24	R0303231	\$10,200
Hart, Gus	PI	Kansas City National Security Campus	Department of Energy	Multiscale Modeling of Titanium with Validation and Experiment Trace Elements in Cluster Expansion	Dec-24	Aug-25	AW02005	\$49,800
Merrell, Duane	PI	University of Utah	National Aeronautics and Space Administration	Teaching the Physics of Sound	May-24	May-25	R0303239	\$5,000
Neilsen, Traci	PI	Office of Naval Research		Hybrid approach to seabed characterization using shipping noise	May-22	Apr-25	R0202570	\$60,000
Neilsen, Traci	PI	Office of Naval Research		Hybrid approach to seabed characterization using shipping noise	May-22	Apr-25	R0202570	\$72,483
Neilsen, Traci	PI	Office of Naval Research		Informational Geometry to Quantify Information Content of Seabed Parameterizations	Aug-24	Jul-27	R0202618	\$66,012
Ragozzine, Darin	PI	Planetary Science Institute	National Aeronautics and Space Administration	Tools for Advanced Dynamical Characterization of Solar System Small Bodies - BYU Subcontract	Jul-23	Jul-25	R0303192	\$46,888
Sandberg, Richard	PI	Department of Energy		Advanced Imaging of intergranular strain dynamics with Atomic Scale and Multi-Grain Bragg Coherent Diffraction Imaging	Aug-24	Jul-25	R0202620	\$155,163
Sandberg, Richard	PI	SLAC National Accelerator Laboratory	Department of Energy	Development of high resolution, single shot, dynamic x-ray imaging	Feb-20	Sep-24	R0302895	\$22,000

Sandberg, Richard	PI	SLAC National Accelerator Laboratory	Department of Energy	Development of high resolution, single shot, dynamic x-ray imaging	Feb-20	Sep-24	Ro302895	\$22,000
Sandberg, Richard	PI	SLAC National Accelerator Laboratory	Department of Energy	Development of high resolution, single shot, dynamic x-ray imaging for IFE- STAR RISE Hub	Sep-24	May-28	Ro303256	\$150,000
Transtrum, Mark	COI	National Institutes of Health		Biochemical Consequences of Regiospecific Metabolic Bias in the Brain	May-20	Feb-25	R0102103	\$131,465
Transtrum, Mark	COI	National Institutes of Health		Biochemical Consequences of Regiospecific Metabolic Bias in the Brain		Feb-25	R0102103	\$14,607
Transtrum, Mark	COI	Office of Naval Research		Informational Geometry to Quantify Information Content of Seabed Parameterizations	Aug-24	Jul-27	R0202618	\$66,012
Transtrum, Mark	PI	Cornell University	National Science Foundation	Center for Bright Beams	Oct-16	Sep-25	R0302718	\$73,623
Transtrum, Mark	PI	Cornell University	National Science Foundation	Center for Bright Beams	Oct-16	Sep-24	Ro302800	\$6,000
Transtrum, Mark	PI	Cornell University	National Science Foundation	Center for Bright Beams	Oct-16	Sep-25	Ro302800	\$6,000
Transtrum, Mark	PI	Lawrence Livermore National Labs	Department of Energy	Predictive Atomistic Materials Simulations with Uncertainty Quantification	Dec-22	Sep-25	R0303135	\$50,000
Transtrum, Mark	PI	New York University	National Science Foundation	Frameworks: Collaborative Research: GOALI: Material Intelligence Foundation Models for Materials Discovery	Oct-23	Sep-24	Ro303225	\$58,736
Van Huele, Jean- Francois	PI	National Science Foundation		REU Site: Physics and Astronomy Research at Brigham Young University	May-24	Apr-27	R0112534	\$18,537
Van Huele, Jean- Francois	PI	National Science Foundation		REU Site: Physics and Astronomy Research at Brigham Young University	May-24	Apr-27	R0112534	\$50,994
Van Huele, Jean- Francois	PI	National Science Foundation		REU Site: Physics and Astronomy Research at Brigham Young University	May-24	Apr-27	R0112535	\$70,418
Van Huele, Jean- Francois	PI	National Science Foundation		REU Site: Physics and Astronomy Research at Brigham Young University	May-24	Apr-27	R0112535	\$160,714
Vanfleet, Richard	COI	National Aeronautics and Space Administration		Advanced A1 mirrors with passivated LiF for environmentally stable 1-meter class UV space telescopes	Jan-23	Jan-26	Ro162046	\$36,118
Vanfleet, Richard	COI	Tula Health, Inc.		TULA Health - Non-Invasive health sensing	Apr-21	Feb-27	R0602659	\$128,069
Verhaaren, Chris	PI	National Science Foundation		Uncovering Physics Beyond the Standard Model	Aug-22	Jul-25	R0112505	\$75,000

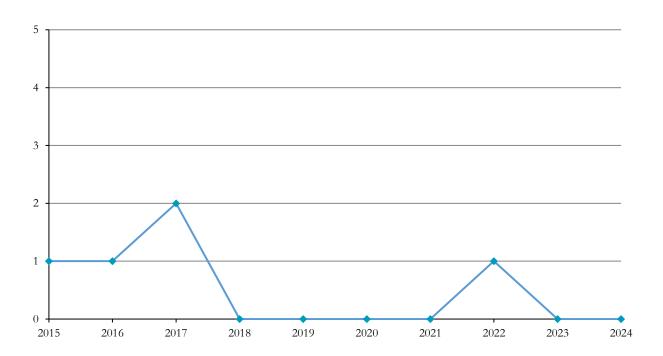


Summary by Departments

Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards*	Dollars Awarded*
Ancient Scripture Church History & Doctrine	0 0	0 0	0 0	\$0 \$0
TOTALS	0	0	0	\$0

^{*}Number of Awards are counted by PI only, while total Dollars Awarded is split between all researchers

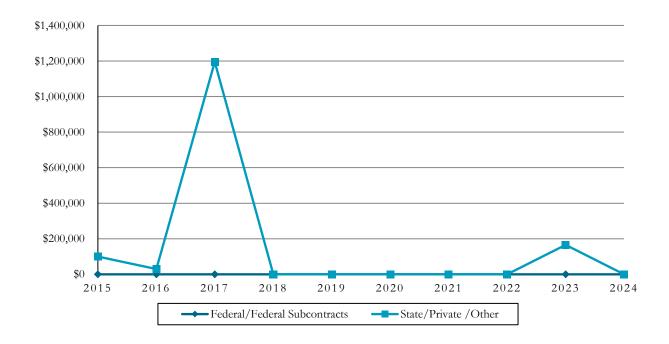
Proposal Submissions



Religious Education

Awards by Sources

	Grants/Co			
Year	Federal/Federal	State/Private	Total	
	Subcontracts	/Other		
2015	\$0	\$100,000	\$100,000	
2016	\$0	\$30,000	\$30,000	
2017	\$0	\$1,194,811	\$1,194,811	
2018	\$0	\$0	\$0	
2019	\$0	\$0	\$0	
2020	\$0	\$0	\$0	
2021	\$0	\$0	\$0	
2022	\$0	\$0	\$0	
2023	\$0	\$166,063	\$166,063	
2024	\$0	\$0	\$0	



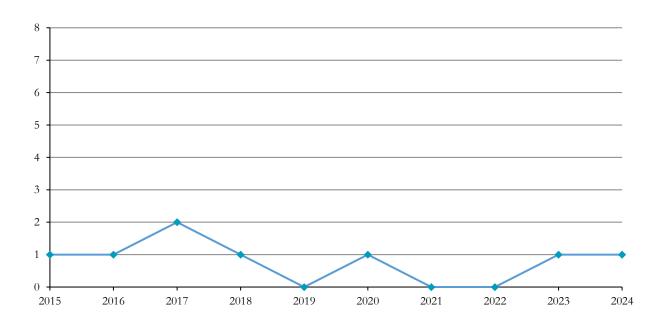


Summary by Units

Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards*	Dollars Awarded*
Harold B. Lee Library	0	0	0	\$0
BYU Police	1	1	1	\$2,718
Research Administration Office	0	0	0	\$0
TOTALS	1	1	1	\$2,718

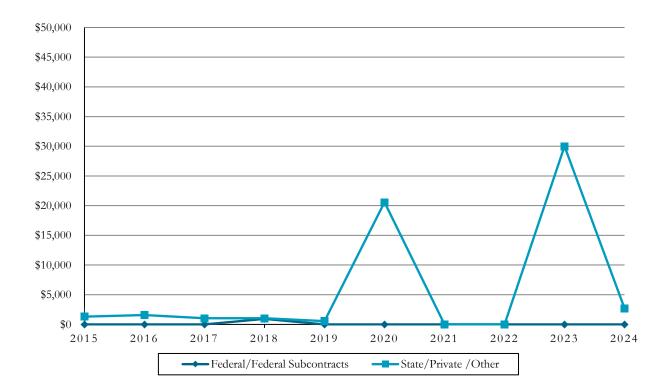
^{*}Number of Awards are counted by PI only, while total Dollars Awarded is split between all researchers

Proposal Submissions



Awards by Sources

	Grants/Co	ontracts			
Year	Federal/Federal	State/Private	Total		
	Subcontracts	/Other			
2015	\$0	\$1,300	\$1,300		
2016	\$0	\$1,588	\$1,588		
2017	\$0	\$1,045	\$1,045		
2018	\$935	\$1,027	\$1,962		
2019	\$0	\$550	\$550		
2020	\$0	\$20,572	\$20,572		
2021	\$0	\$0	\$0		
2022	\$0	\$0	\$0		
2023	\$0	\$30,000	\$30,000		
2024	\$0	\$2,718	\$2,718		



Non-College Units 2024 Awards

Researcher	<u>Role</u>	<u>Sponsor</u>	<u>Prime</u> Sponsor	<u>Title</u>	Beg Date	End Date	Account	Amount
BYU Police								
Hansen, Nancy	PI	State of Utah		EMS Per Capita Grant - Powerphone Total Response	Jul-24	Jul-27	R0402414	\$2,718



There are a number of federal, state, and university regulations which are intended to ensure the safety and well-being of those associated with research and creative activities at academic institutions. The Research Administration Office specifically supports three university committees and provides other certifications as needed. This page contains a record of official actions taken by these committees during the January 2024 through December 2024 time period. In addition to those official actions, the committee—their individual chairs and members—and the RAO staff actively reviewed facilities, developed and updated policies, and educated the university research community on pertinent issues. The following is a brief description of each committee.

The Institutional Animal Care and Use Committee (IACUC)

The IACUC ensures appropriate housing, care, and humane treatment of animals used in research or other academic activities. RAO supports this committee and maintains the university's "Assurance" status with federal agencies. The "Assurance" document is a way of accrediting BYU to maintain and work with laboratory animals. During 2024, the IACUC accomplished the following:

- 10 IACUC meetings
- Maintained 74 active IACUC protocols
- Processed over 270 submissions, including 31 new protocols, 21 study amendments, 131 personnel amendments, and other protocol actions
- Completed semiannual facility inspections and program evaluations

The Institutional Biosafety Committee (IBC)

The IBC supervises the use of recombinant DNA and other biological safety and hazard issues at BYU. The Institutional Biosafety Committee must review all proposed experiments and approve such in advance of actual work. As with the other committees listed above, IBC has jurisdiction over any recombinant DNA experiments on campus--be they a part of funded or unfunded research or part of instructional activities. During 2024, the IBC accomplished the following:

- 7 IBC meetings
- Maintained 43 active IBC protocols
- Processed over 30 submissions, including 6 new protocols, 1 study amendment, 2 personnel amendments, along with other administrative actions

The Human Research Protections Program (HRPP)/Institutional **Review Board (IRB)**

The mission of the Brigham Young University Human Research Protection Program (HRPP) is to protect the rights and welfare of human research subjects conducted by BYU investigators. It is also driven by a mission to build character, treat all individuals with dignity and fairness, and strengthen academic integrity in research. We are committed to upholding the highest ethical standards and ensuring the protection and welfare of human research subjects involved in research activities.

The HRPP not only strives to adhere to the highest ethical standards in its protection of human research subjects, but it also addresses the needs and concerns of investigators and enhances the support of their endeavors.

The table below includes the number of human research study transactions in 2024.

2024 Total Number of Applications				
Total Number of New Applications Submitted	436			
Number of Modifications to Approved Studies	446			
Continuing Reviews Processed	73			
Submission Corrections	1049			
Approvals	339			
Adverse Event Reports	8			
Total Number of Protocol Transactions	2351			



The Research Administration Office

Purpose

The office exists to support students, staff, faculty, and BYU administration in their efforts to encourage and support research, creative activities, and other expressions of academic scholarship.

Functional Organization

The office is organized to provide service to sponsored research and creative activities and to provide supportive leadership to such policy matters as appropriate. The office is under the direction of the Associate Academic Vice President for Research and Graduate Studies. The office has a close relationship with the Technology Transfer Office and Office of the General Counsel for coordination of certain contracts, with the Grants & Contracts Accounting Office for post-award grant and contract administration, and with the Faculty Personnel Office for payment of research compensation.

Personnel

Director: Gene Larson

Associate Director, Sponsored Projects: Debbie Silversmith

Research Administrator: Susie Quartey Research Administrator: Maren Britt Administrative Assistant: Maria Kim

Associate Director, HRPP: Sandee Aina IRB Administrator: Wayne Larsen IRB AM Coordinator: Stephanie Coyne IRB PM Coordinator: Emily Gneiting

Associate Director, IACUC/IBC: Jason Jay

IACUC/IBC Coordinator: Regina McCarthy

University Veterinarian & Associate Director, LARC: Sandy Garrett

LARC Manager: Tarra Anderson Assistant LARC Manager: Jeonga Gu

Business Systems Analyst: Audrey Coria

1) Policy Review and Development

- Develop policies and procedures to foster research.
- Publish procedures for dissemination to campus community.
- Update BYU procedures relevant to research and creative activities in the electronic handbook.
- Monitor research awards in conjunction with Grants & Contracts Accounting (GCA) to assure compliance with contract requirements, government regulations, and BYU policy.

2) Opportunity Coordination

- Represent the university's research program to other research organizations, funding agencies, and other universities.
- Assist as needed Research Development to disseminate information on funding opportunities to faculty.
- Review funding opportunities to interpret and determine eligibility.

3) Proposal Preparation and Submission

- Provide support for faculty in using Kuali Research.
- Coordinate the preparation of large, inter-collegiate, and inter-institutional research proposals.
- Assist with proposal budgets, determining most appropriate budget categories to be used.
- Assist in creating, reviewing, approving, and submitting proposals in Kuali Research and to sponsors.

4) Negotiating and Interacting with Sponsors

- Negotiate and manage grants and contracts, at the onset and throughout the life of each project.
- Submit prior approval requests to sponsors.
- Interface with sponsoring agencies to maintain awareness of research funding trends.

5) Compliance with Federal Regulations and Other Requirements

- Monitor government regulations pertaining to federal grants and contracts.
- Educate faculty on federal regulations at proposal and award.
- At project closeout, work with Fixed Asset Management regarding government property to assure compliance with federal regulations.
- Assure project compliance with reporting requirements and manage closeout documentation.
- Oversee three compliance committees and assist them through secretarial and administrative support for meetings, correspondence, and protocol approval.

6) Negotiating and Interfacing with Subawardees and Subcontractors

- Negotiate terms of agreements.
- Monitor agency regulations and BYU policy and procedures for stipulations concerning subawardees, subcontractors and independent consultants/contractors.
- Prepare contracts, amendments, facilitate execution and initiate processing through the university.

7) Project and Account Management (Post-Award)

- Control award set up (after compliance requirements have been met) and coordinate activation with GCA.
- Coordinate contractual needs during the course of each project.
- ♦ Assist GCA with audits of project accounts.
- Assure compliance with reporting requirements and manage closeout documents.
- Act as a liaison between researchers and sponsors to facilitate management of projects.
- Coordinate re-budget requests to Sponsors, when applicable.

8) Financial Management

- ♦ Document cost sharing processes and approvals.
- Prepare and publish yearly financial reports in RAO Annual Report.
- Ensure monthly reports are available on demand in Kuali Research.
- Process incoming funds from sponsors.
- Monitor university compliance with appropriate federal and state financial regulations.
- Assist with completion of annual audits.

9) University Negotiations/Trouble Shooting

- Participate in DHHS indirect costs justification.
- Direct negotiations with sponsors on contractual issues, such as early termination or updates to payment schedules.

10) Office Management

- ♦ Assist in budget management and accounting of RAO accounts.
- Compile an annual report of university research activities.
- Assist in the submission of project reports and process award closeouts.
- Maintain RAO website (http://rao.byu.edu), including the four areas within RAO (SPO, IRB, IACUC/IBC, LARC).
- ♦ Maintain back-up of RAO files.
- Reconcile and merge CITI training records.
- ♦ Grant access to users of iRIS.
- ♦ Maintain/monitor roles assigned for needed access to Kuali Research.



Compliance Obligations (As Per Federal Statute or Regulation)

The following pages list sample areas where formal compliance to federal statutes and regulations is required to participate in federal funding. The list is included to illustrate the range of possible certification or other compliance. Specific grants and contracts may involve only a subset of these compliance obligations. As needed, applicable and possible on each award, research administrators negotiate agreements/contracts to stay within BYU's policies and procedures.

Regulatory Framework

Uniform Guidance 2 CFR Part 200

Federal Acquisition Regulations (FAR)

Defense Federal Acquisition Regulations (DFAR)

Department of Energy Acquisition Regulations (DEAR)

USAID Acquisition Regulations (AIDAR)

HIPPA

FFATA

ITAR/EAR/CUI

RCR

E-Verify

The Coordinated Review Process-Executive Order 12372

Rights to Inventions Made by Nonprofit Organizations and Small Business Firms

Compliance Information for Specific Circumstances

Facilities Management

Historic Preservation

Paperwork Reduction Act

Individual Rights

Antidiscrimination

Civil Rights Act of 1964—Title VI

Employment of the Handicapped-Rehabilitation Act of 1973

Americans with Disabilities Act

Title IX—Sex Discrimination

Age Discrimination

Equal Employment Opportunity

Affirmative Action for Special Disabled and Vietnam Era Veterans

Utilization of Women-Owned Small Business

Utilization of Labor Surplus Area Concerns

Utilization of Small and Small Disadvantaged Business Concerns

Privacy

Privacy Act of 1974 Freedom of Information Act Confidentiality of Patient Records

Protection Issues

Environmental Protection

Clean Air Act and Clean Water Act

Hazardous Materials

Protection of Living Organisms

Human Subjects Compliance

Use of Animals in Research

Marine Mammal Act

Research Involving Recombinant DNA Molecules

Employee Directives

Drug-free Workplace

Drug-free Work Force

Drug-free Schools and Campuses Act

Lobbying

Occupation Safety and Health

David Bacon Act

Walsh-Healey Public Contracts Act

Service Contract Act

Contract Work Hours and Safety Standards Act of 1962

Fraud, Waste, and Abuse

Misconduct in Science

Procurement Integrity

Debarment and Suspension

Covenant Against Contingent Fees

Anti-Kickback Act of 1986

Officials Not to Benefit

Specific Administrative Requirements

General Requirements

Buy American Act

Fly American Act

Competition in Contracting

Export Administration Act and Arms Export Control Act

Insurance-Immunity from Tort Liability

Prompt Payment

Non-delinquency of Federal Debt

Certificate of Current Cost and Pricing Data

Acknowledgment of Federal Grant Support (Stevens Amendment)