

The 2022 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 2022 are also in Kualu 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 Kualu Research Reports (<https://byures.kuali.co/dashboard/reports>). However, there are a few discrepancies on some awards with hierarchy. We are working with Kualu to find a fix for the issue. If you have questions regarding any discrepancies between this PDF report and that which is displayed in Kualu Research, please let us know.

Thank you,

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2022 Annual Report of Sponsored Research

RESEARCH ADMINISTRATION OFFICE

Table of Contents

Preface.....	5
The University	7
Information by College or School.....	17
David O. McKay School of Education	23
Ira A. Fulton College of Engineering	29
College of Family, Home, & Social Sciences.....	47
College of Fine Arts & Communications	55
College of Humanities	61
J. Reuben Clark Law School.....	67
College of Life Sciences	71
Marriott School of Business.....	83
College of Nursing	89
College of Physical & Mathematical Sciences	93
Religious Education	107
Non-College Units	111
Compliance Committees.....	115
Appendix 1	119
Appendix 2.....	125

Preface

This report covers January 1, 2022, to December 31, 2022.

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

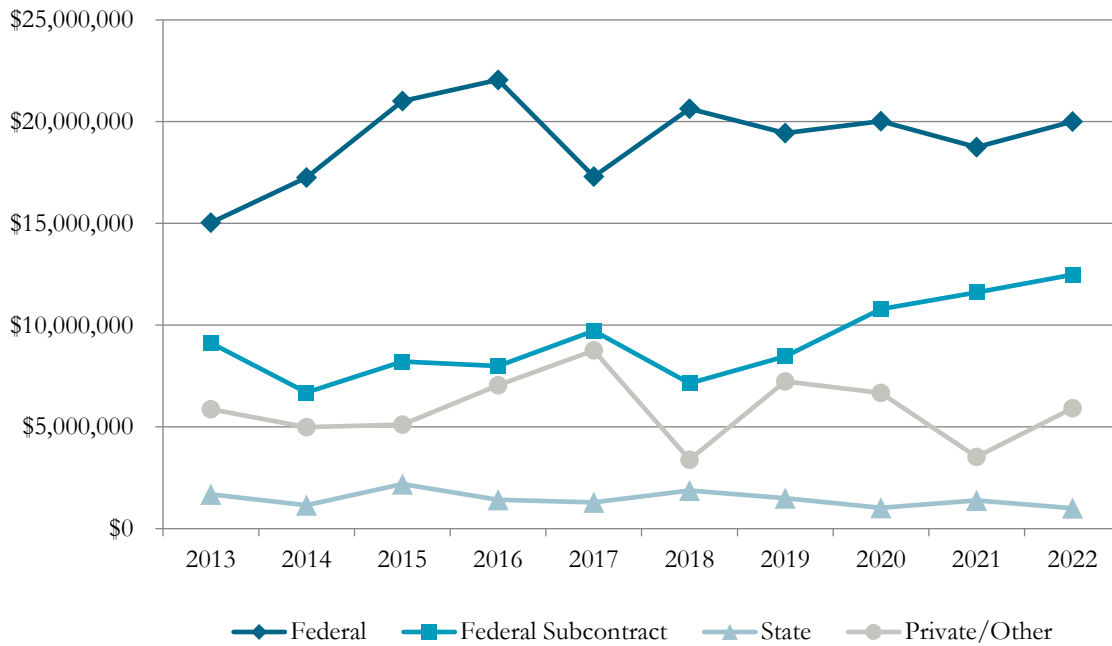
- ***Reports of Sponsored Projects:*** Sponsored projects at BYU are those funded by external sources through RAO. They are largely research projects, but many include programs that are designed to develop or support instructional or service activities. Support for creative activities such as performance, 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.



The University

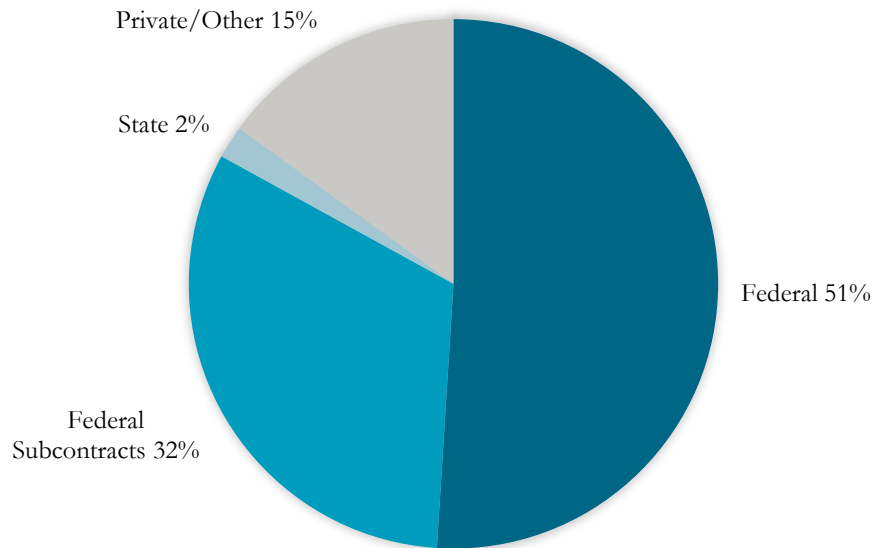
External Research Funding

Grants/Contracts						
Year	Federal	Federal Subcontract	State	Private/Other	Total	%Federal
2013	\$15,034,387	\$9,126,548	\$1,679,472	\$5,871,718	\$31,712,125	76%
2014	\$17,260,137	\$6,693,946	\$1,151,886	\$4,984,448	\$30,090,417	79%
2015	\$21,015,987	\$8,205,836	\$2,192,841	\$5,115,501	\$36,433,016	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%



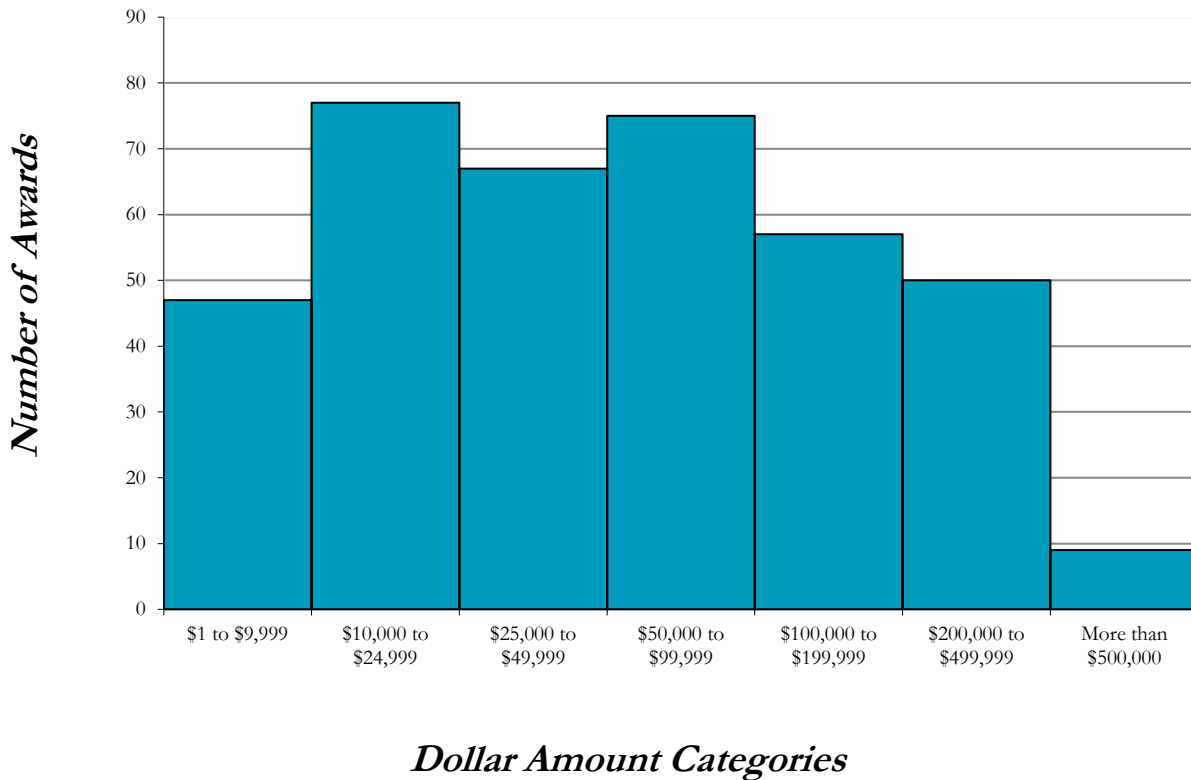
External Funds by Source-2022

Source	Amount	% of Total
Federal	\$20,012,918	51%
Federal Subcontracts	\$12,477,754	32%
State	\$1,004,998	2%
Private/Other	\$5,917,122	15%
<i>Total Funding</i>	\$39,412,792	100%

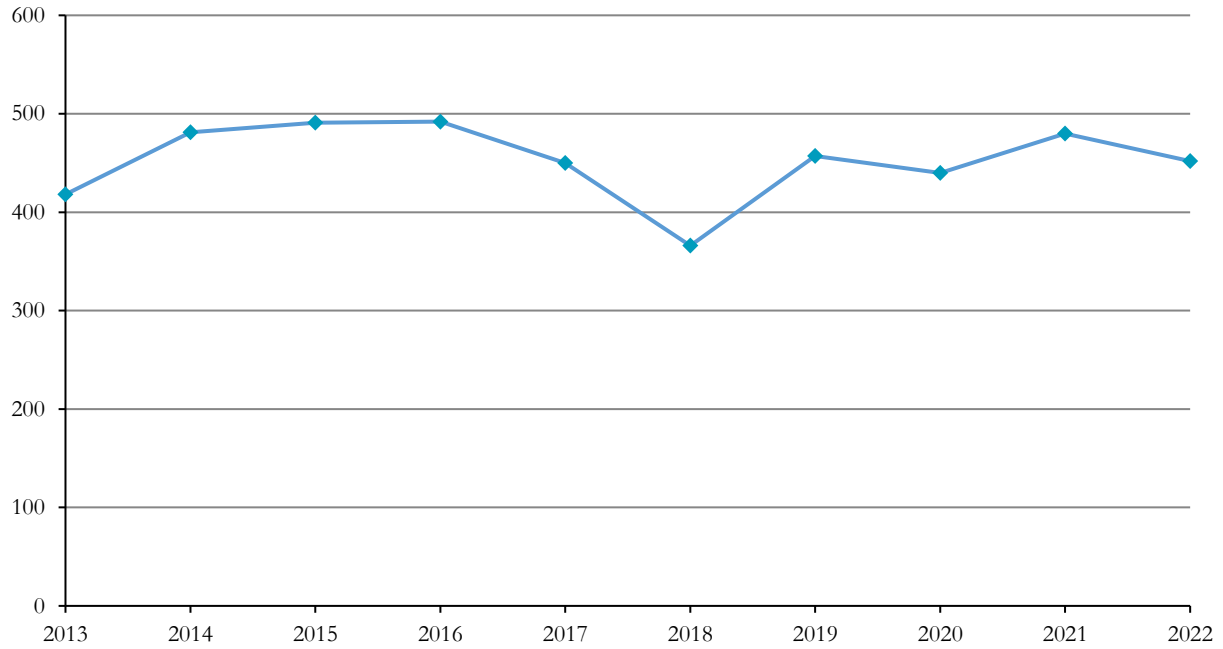


Awards by Amount-2022

Dollar Amount Categories	# of Awards	% of Total Awards by #	\$ Awards	% of Total Awards by \$ Amount
\$1 to \$9,999	46	12%	\$217,333	1%
\$10,000 to \$24,999	77	20%	\$1,254,839	3%
\$25,000 to \$49,999	67	18%	\$2,455,415	6%
\$50,000 to \$99,999	75	20%	\$5,423,037	14%
\$100,000 to \$199,999	57	15%	\$7,694,374	20%
\$200,000 to \$499,999	50	13%	\$15,170,832	38%
More than \$500,000	9	2%	\$7,196,962	18%
Totals	381	100%	\$39,412,792	100%

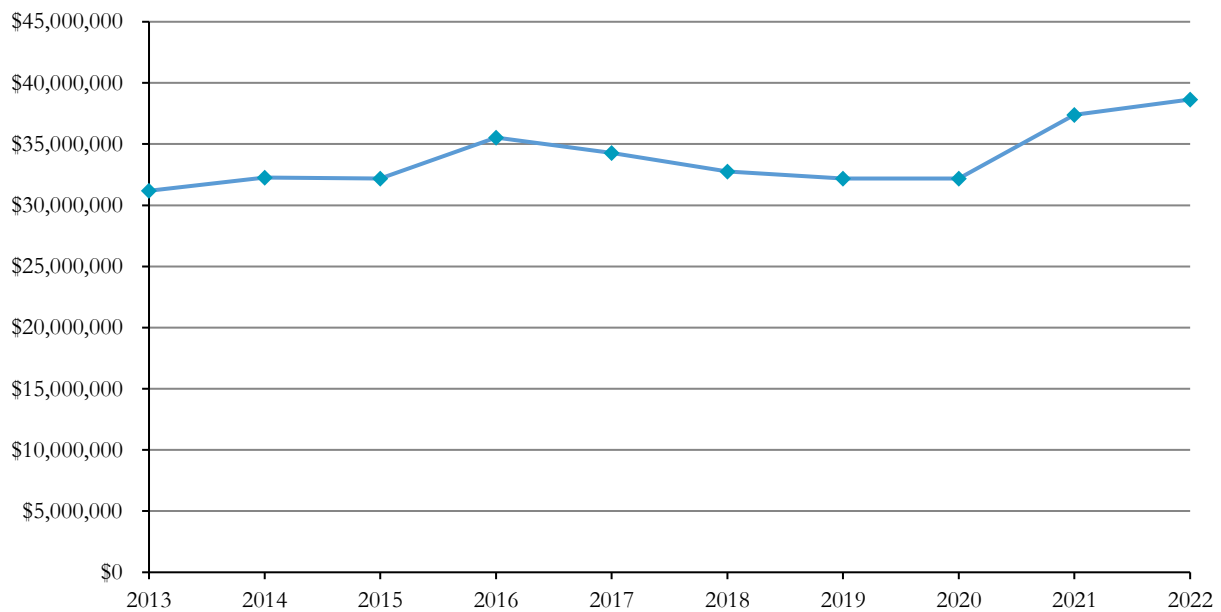


Proposals Submitted



Total Award Expenditures

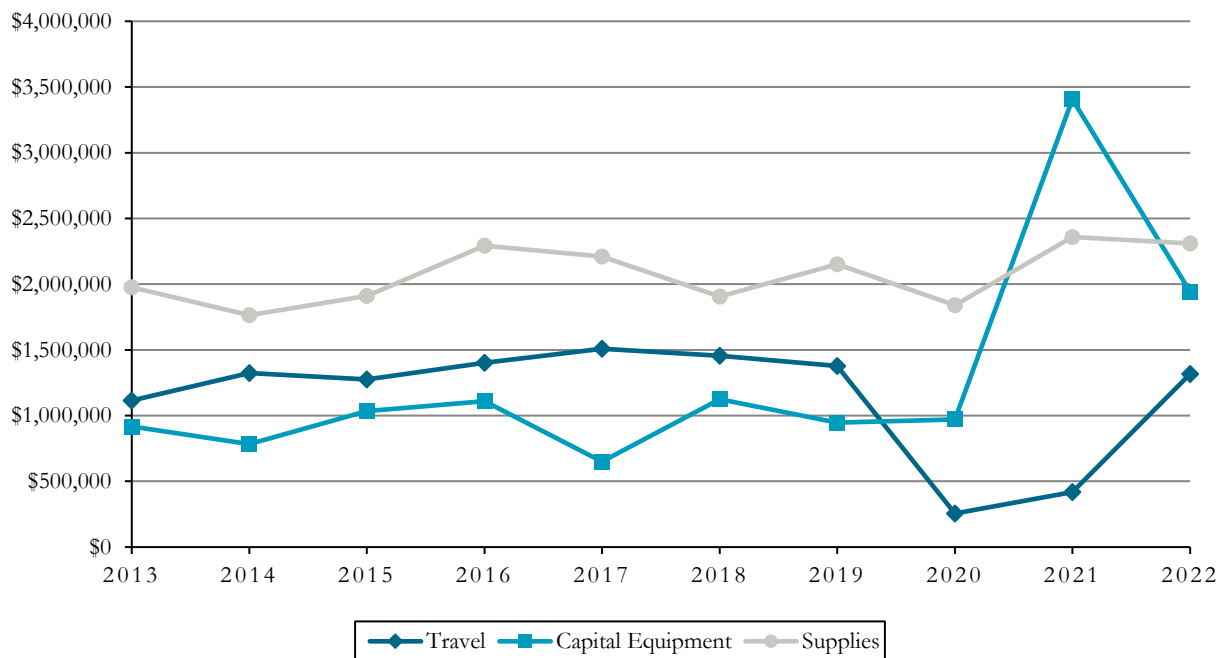
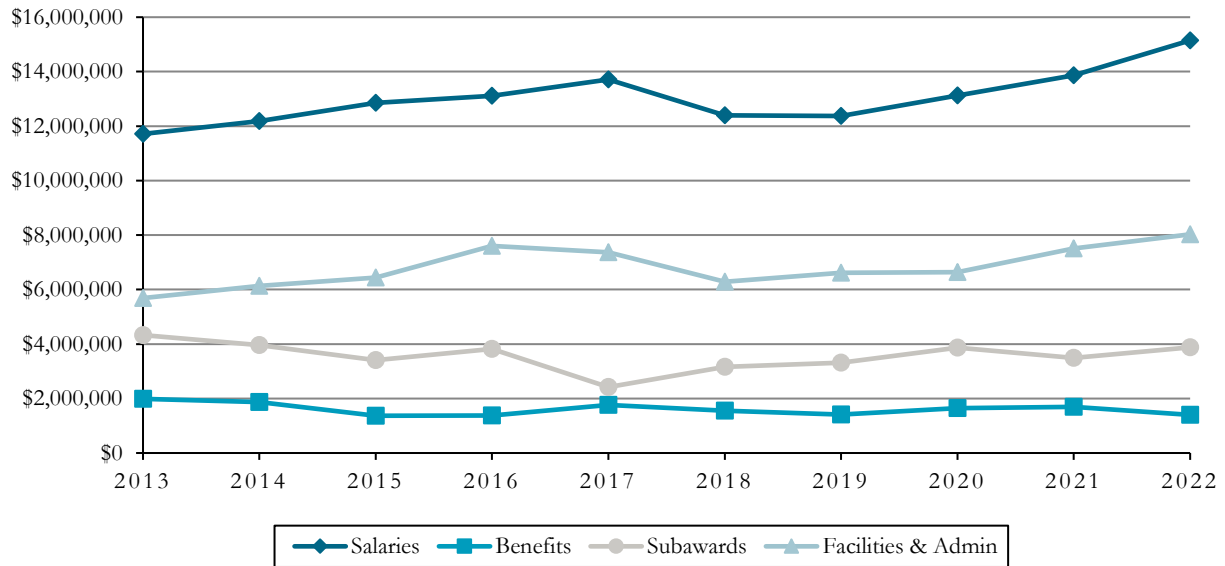
Year	Total Expenditures
2013	\$31,184,980
2014	\$32,258,073
2015	\$32,177,342
2016	\$35,537,915
2017	\$34,278,900
2018	\$32,772,780
2019	\$32,177,733
2020	\$32,182,706
2021	\$37,401,138
2022	\$38,647,126



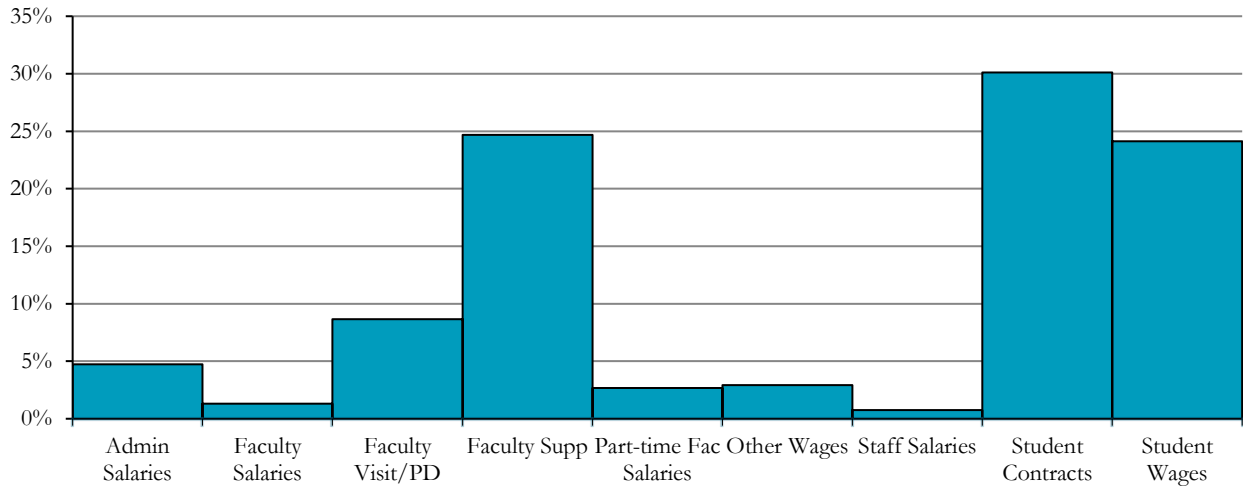
2022 Award Expenditures by Category

<i>Personnel Costs</i>	<i>Amount</i>
<i>Salaries & Wages</i>	
Admin Salaries	\$673,128
Faculty Salaries	298,694
Visiting Faculty/Post Doctoral Researcher Salaries	1,180,958
Faculty Spring Summer/Supplemental Salaries	3,738,823
Other Wages	395,722
Part-time Faculty Salaries	520,025
Staff Salaries	109,192
Student Contracts	4,466,457
Student Wages	3,764,175
<i>Total Salaries & Wages</i>	<u>\$15,147,174</u>
Fringe Benefits	<u>\$1,395,323</u>
<i>Total Personnel Cost</i>	<u>\$16,542,497</u>
 <i>Other Expenditures</i>	
Access Equipment	\$2,596
Advertising and Promotion	4,704
Capital Equipment	1,941,460
Conference & Symposium Costs	60,615
Consultants	177,215
Contract Services	1,139,476
Employee Development/Training	60,905
Equipment Maintenance	53,710
Facilities & Administration	8,027,621
Facilities Remodel	1,150
Hosting, Food, Entertainment	46,681
Non-Capital Equipment	199,278
Participant Support	307,949
Postage and Mailing	14,759
Printing and Copying	9,653
Purchase Discounts Earned	(2)
Rental Expense	72,292
Research Fellowships	10,000
Research Publications Costs	44,427
Software Acquisitions/Support	49,603
Software Maintenance	20,114
Student Aid	2,349,195
Subawards	3,881,239
Supplies	2,309,846
Telecommunications	3,389
Travel	1,316,738
Uniforms/Costumes/Laundry	17
<i>Total Other Expenditures</i>	<u>\$22,104,629</u>
 <i>Total Research Expenditures</i>	<u>\$38,647,126</u>

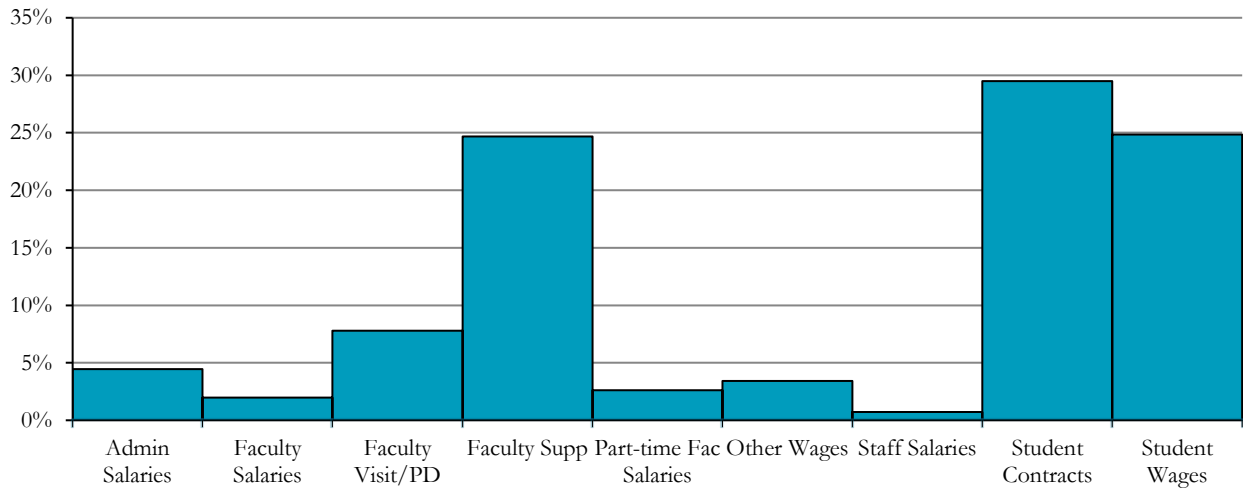
Award Dollars Expended

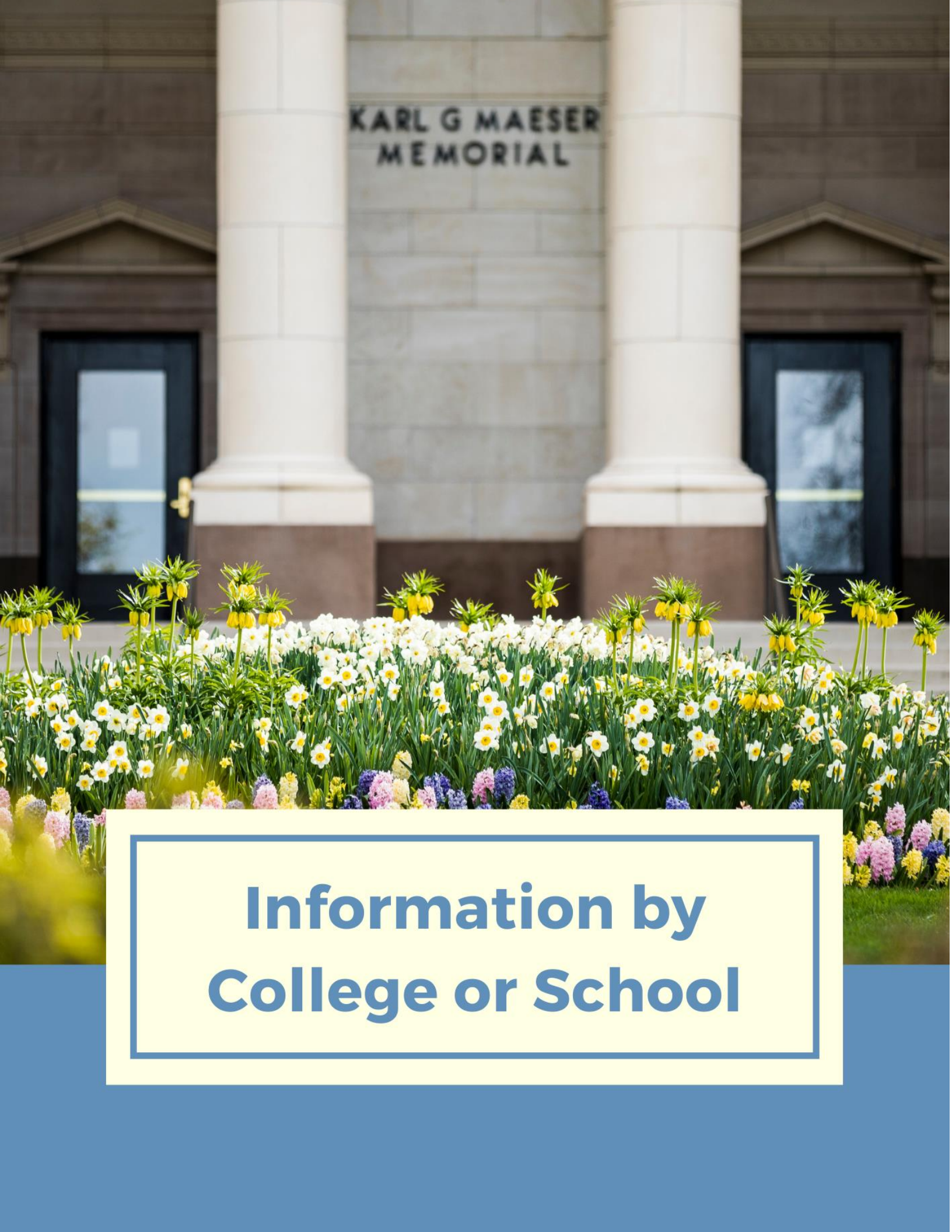


2021 Salaries and Wages Expenditures
Total: \$13,864,291



2022 Salaries and Wages Expenditures
Total: \$15,147,174



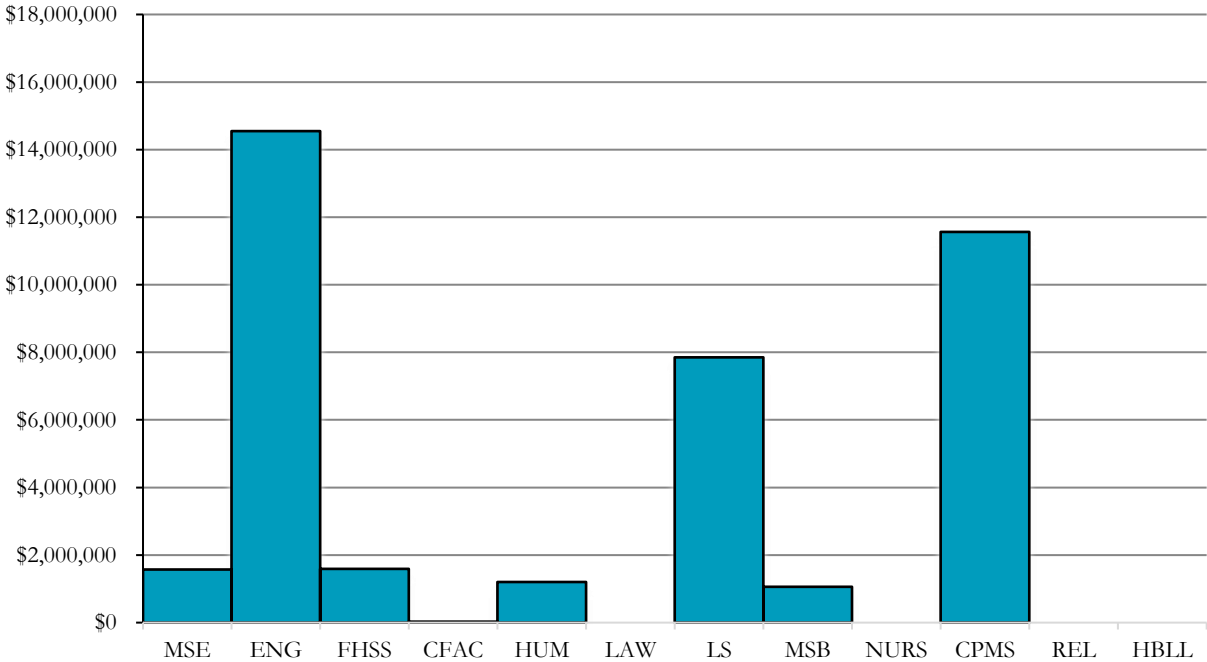
A photograph of the Karl G. Maeser Memorial building, featuring two large white columns and a stone facade. The text "KARL G MAESER MEMORIAL" is visible on the wall between the columns. In the foreground, there is a vibrant garden of yellow, white, pink, and purple flowers.

KARL G MAESER
MEMORIAL

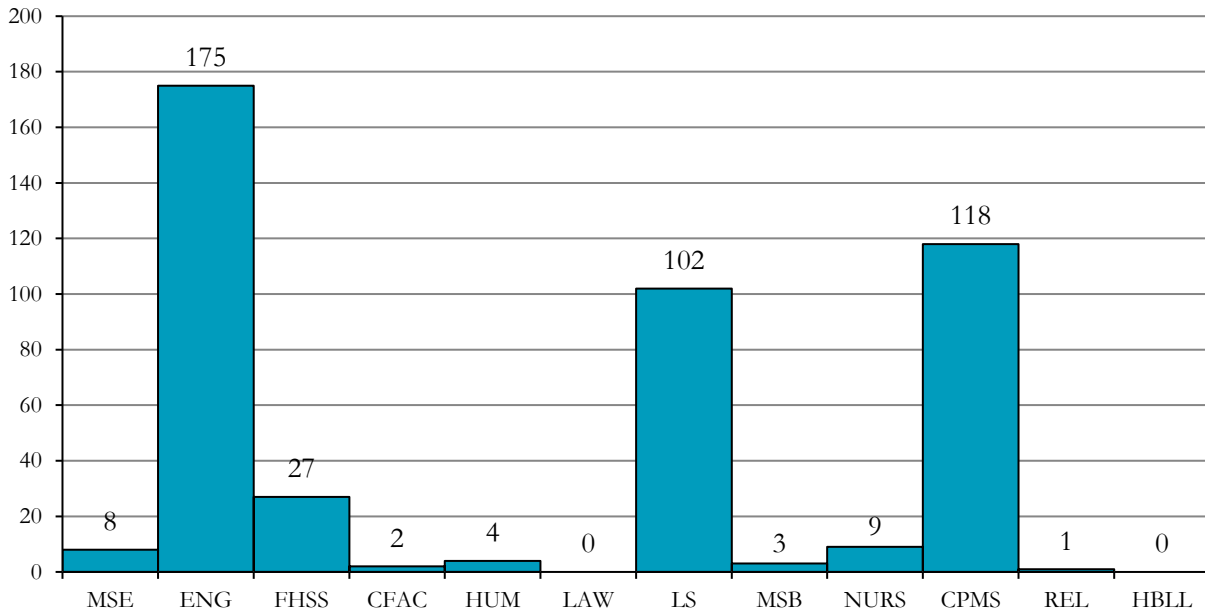
Information by College or School

Total Awards by College

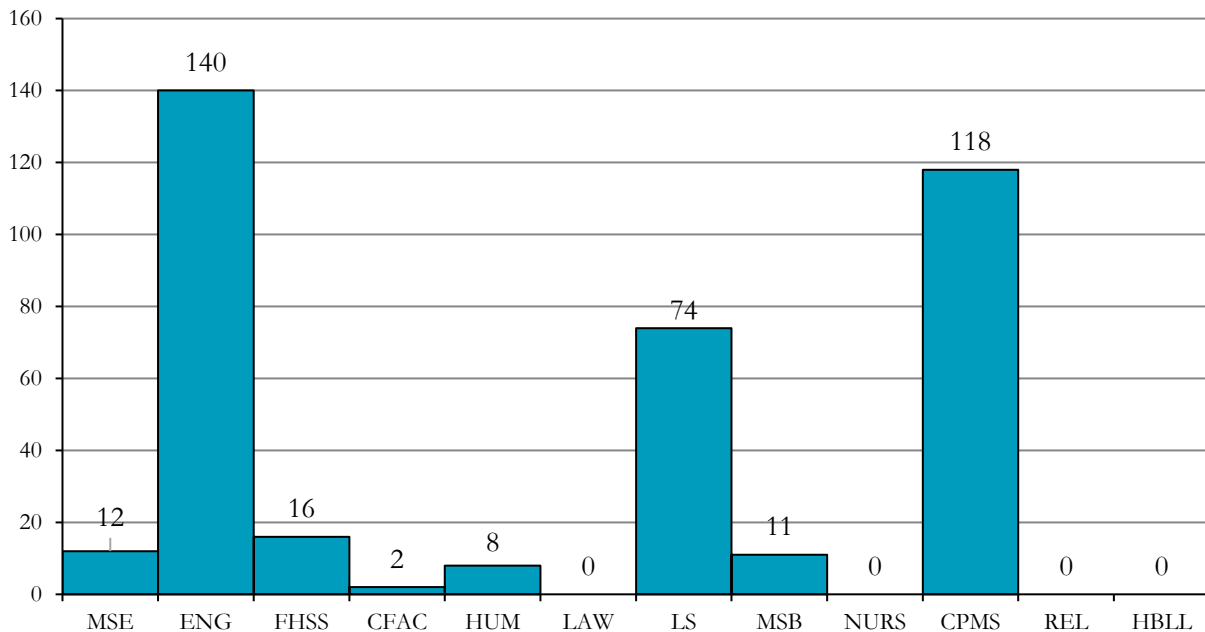
<i>College or School</i>	<i>Total</i>
David O. McKay School of Education	\$1,568,872
Ira A. Fulton College of Engineering	\$14,545,690
College of Family, Home & Social Sciences	\$1,592,925
College of Fine Arts & Communications	\$26,600
College of Humanities	\$1,197,788
J. Reuben Clark Law School	\$0
College of Life Sciences	\$7,852,013
Marriott School of Business	\$1,064,895
College of Nursing	\$0
College of Physical & Mathematical Sciences	\$11,564,009
Religious Education	\$0
Harold B. Lee Library	\$0
University Total	\$39,412,792



Number of Proposals-2022



Number of Awards-2022



Total Awards by College and Department

<i>College and Department</i>	<i>Amount</i>
<u>David O. McKay School of Education</u>	
Center for Improvement of Teacher Education & Schooling	\$386,879
Communication Disorders	\$777,232
Counseling, Psychology, & Special Education	\$250,000
Education Leadership & Foundations	\$74,809
Instructional Psychology & Technology	\$79,952
Teacher Education	\$0
TOTAL	\$1,568,872
<u>Ira A. Fulton College of Engineering</u>	
Chemical Engineering	\$3,433,778
Civil & Construction Engineering	\$2,110,060
Electrical & Computer Engineering	\$4,226,674
Manufacturing Engineering	\$530,873
Mechanical Engineering	\$4,094,569
School of Technology	\$149,736
TOTAL	\$14,545,690
<u>College of Family, Home, & Social Sciences</u>	
Anthropology	\$0
Economics	\$130,351
Geography	\$0
History	\$511,336
Museum of Peoples & Cultures	\$0
Political Science	\$725,949
Psychology	\$125,866
School of Family Life	\$56,642
School of Social Work	\$18,385
Sociology	\$24,396
TOTAL	\$1,592,925
<u>College of Humanities</u>	
Asian & Near East Languages	\$827,792
Comparative Arts & Letters	\$369,996
English	\$0
French & Italian	\$0
German & Russian	\$0
Linguistics	\$0
Philosophy	\$0
Spanish & Portuguese	\$0
TOTAL	\$1,197,788

College of Fine Arts & Communications

Art	\$0
Communications	\$20,000
Dance	\$0
Design	\$0
School of Music	\$0
Theatre & Media Arts	\$6,600

TOTAL \$26,600

College of Life Sciences

Biology	\$1,164,532
Cell Biology & Physiology	\$843,633
Exercise Science	\$279,897
Microbiology & Molecular Biology	\$1,128,602
Monte Bean Life Science Museum	\$94,000
Nutrition, Dietetics, & Food Science	\$532,280
Plant & Wildlife Sciences	\$3,505,775
Public Health	\$303,294

TOTAL \$7,852,013

Marriott School of Business

Ballard Center for Social Impact	\$0
Experience Design & Management	\$5,000
Finance & Managerial Economics	\$0
Global Management Center	\$290,466
Information Systems	\$149,736
Management	\$75,508
Marketing & Global Supply Chain	\$0
Romney Institute of Public Management	\$544,185
School of Accountancy	\$0

TOTAL \$1,064,895

College of Physical & Mathematical Sciences

Chemistry	\$5,298,418
Computer Science	\$908,349
Geology	\$256,113
Mathematics	\$902,650
Mathematics Education	\$144,100
Physics & Astronomy	\$4,030,379
Statistics	\$24,000

TOTAL \$11,564,009

Grand Total \$39,412,792



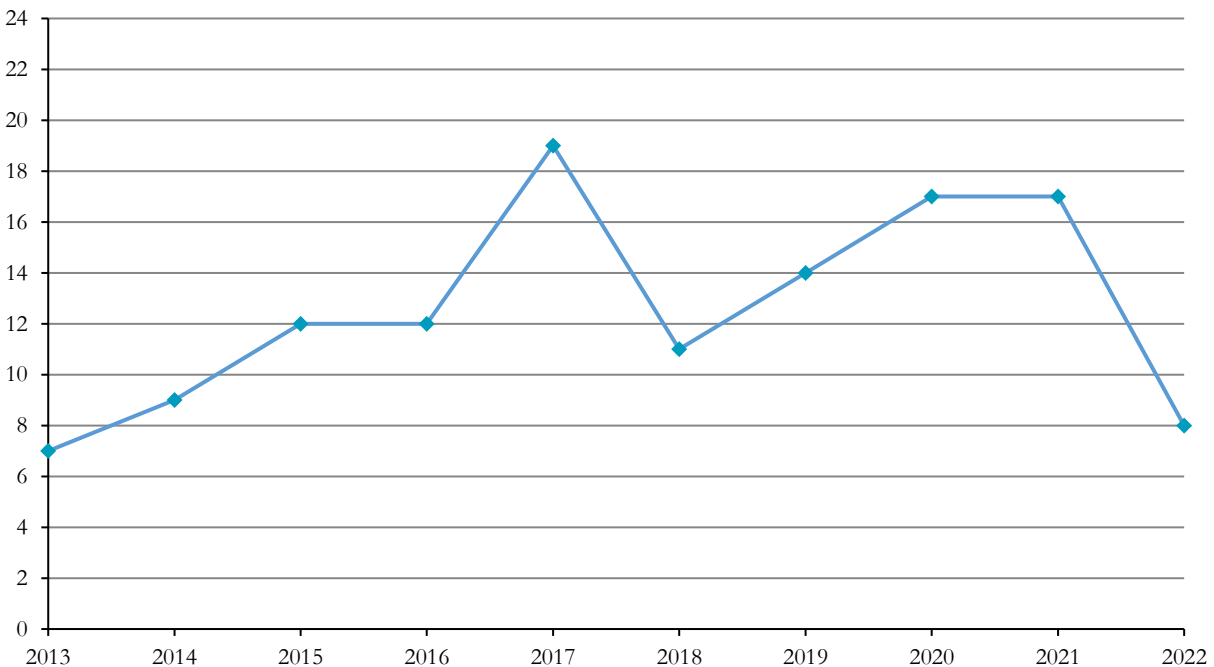
David O. McKay School of Education

Summary by Departments

Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards*	Dollars Awarded*
Center for Improvement of Teacher Education & Schooling	1	5	3	\$386,879
Communication Disorders	1	1	2	\$777,232
Counseling, Psychology, & Special Education	1	1	5	\$250,000
Educational Leadership & Foundations	0	0	1	\$74,809
Instructional Psychology & Technology	0	0	1	\$79,952
Teacher Education	1	1	0	\$0
TOTALS	4	8	12	\$1,568,872

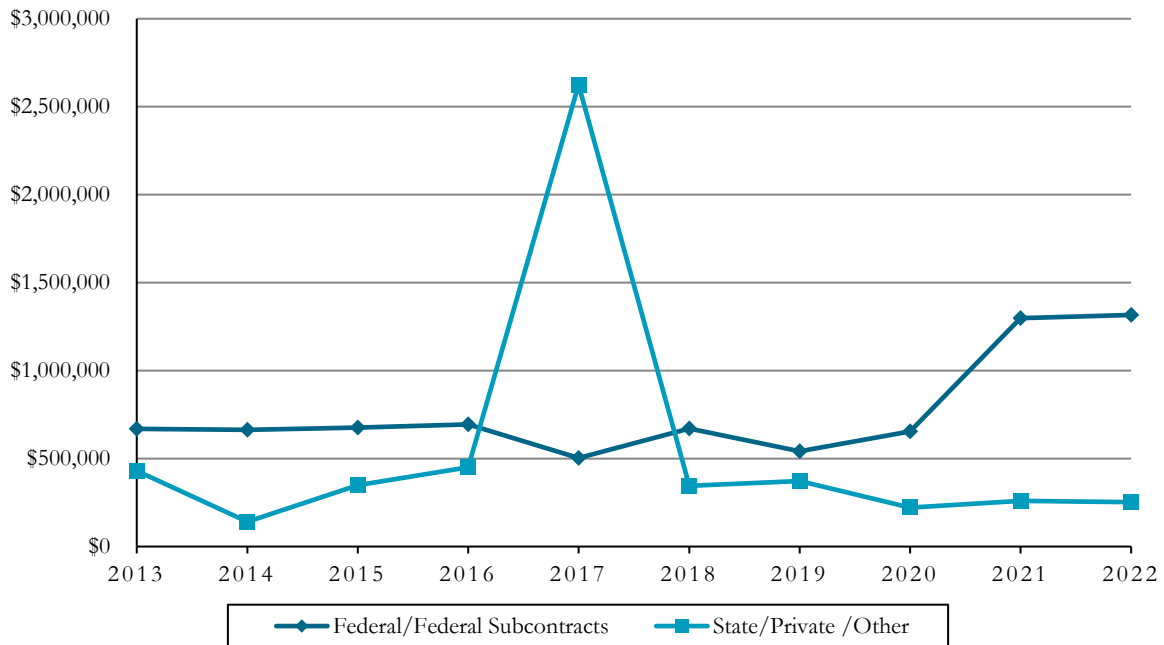
*Number of Awards are counted by PI only, while total Dollars Awarded is split between all researchers

Proposal Submissions



Awards by Sources

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private /Other	
2013	\$669,318	\$430,120	\$1,099,438
2014	\$663,944	\$141,000	\$804,944
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



David O. McKay School of Education 2022 Awards

<u>Researcher</u>	<u>Role</u>	<u>Sponsor</u>	<u>Prime Sponsor</u>	<u>Title</u>	<u>Beg Date</u>	<u>End Date</u>	<u>Account</u>	<u>Amount</u>
<i>Center for Improvement of Teacher Ed. & Schooling</i>								
Caldarella, Paul	PI	University of Kansas	Department of Education	Initial Efficacy Evaluation of the CW-FIT Middle School Program: Improving Academic Engagem	Jan-21	Jun-23	R0302988	\$134,479
Flox, Cally	PI	Utah State Board of Education		BTSALP Grant Application 2022-23	Jul-22	Jun-23	R0402390	\$222,400
Flox, Cally	PI	Utah Division of Arts and Museums		Native American Curriculum Initiative (BYU Arts Partnership) Continuation Project	Jul-22	Jun-23	R0402391	\$30,000
<i>Communications Disorders</i>								
Tanner, Kristine	PI	National Institutes of Health		Pathophysiology of Voice Disorders due to Combination Inhaled Corticosteroids in Asthma	May-21	Apr-23	R0102086	\$183,038
Tanner, Kristine	PI	National Institute on Deafness and Other Communication Disorders	National Institutes of Health	Imaging and Influence of Glottic and Subglottic Anatomy in healthy and stenotic patients	Sep-18	Aug-23	R0102087	\$594,194
<i>Counseling, Psychology, & Special Education</i>								
Charlton, Cade	PI	University of Florida	Department of Education	CEEDAR Funding Request #3	Jan-22	Dec-22	R0303062	\$10,800
Eichelberger, Carrie	COI	Utah State Board of Education	Department of Education	COUGS (Creating Opportunities for Under Graduate Severe Special Educators) Scholars Program	Jul-22	Jun-24	R0303101	\$50,000
Eichelberger, Carrie	COI	Utah State Board of Education	Department of Education	COUGS (Creating Opportunities for Under Graduate Severe Special Educators) Scholars Program	Jul-22	Jun-24	R0303102	\$1,750
Eichelberger, Carrie	COI	Utah State Board of Education	Department of Education	COUGS (Creating Opportunities for Under Graduate Severe Special Educators) Scholars Program	Jul-22	Jun-24	R0303104	\$5,750
Gabrielsen, Terisa	PI	Utah State Board of Education	Department of Education	Building Utah's School Psychologist Workforce	Jul-22	Jun-24	R0303085	\$62,100

Kellems, Ryan	PI	Utah State Board of Education	Department of Education	COUGS (Creating Opportunities for Under Graduate Severe Special Educators) Scholars Program	Jul-22	Jun-24	R0303101	\$50,000
Kellems, Ryan	PI	Utah State Board of Education	Department of Education	COUGS (Creating Opportunities for Under Graduate Severe Special Educators) Scholars Program	Jul-22	Jun-24	R0303102	\$1,750
Kellems, Ryan	PI	Utah State Board of Education	Department of Education	COUGS (Creating Opportunities for Under Graduate Severe Special Educators) Scholars Program	Jul-22	Jun-24	R0303104	\$5,750
Winters, Rebecca	COI	Utah State Board of Education	Department of Education	Building Utah's School Psychologist Workforce	Jul-22	Jun-24	R0303085	\$62,100

Education Leadership & Foundations

Hallam, Pamela	PI	Michigan State	National Institutes of Health	Protecting Teacher's Voices: Investigating Risk Factors, Conducting Analysis	May-21	Apr-23	R0302986	\$74,809
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Instructional Psychology & Technology

Rich, Peter	PI	George Mason University	National Science Foundation	Project REVEAL-HS: Fostering Student Computational Thinking in Data Analysis Through Self-Regulated Learning Prompts and Analytics	Oct-18	Sep-23	R0302828	\$79,952
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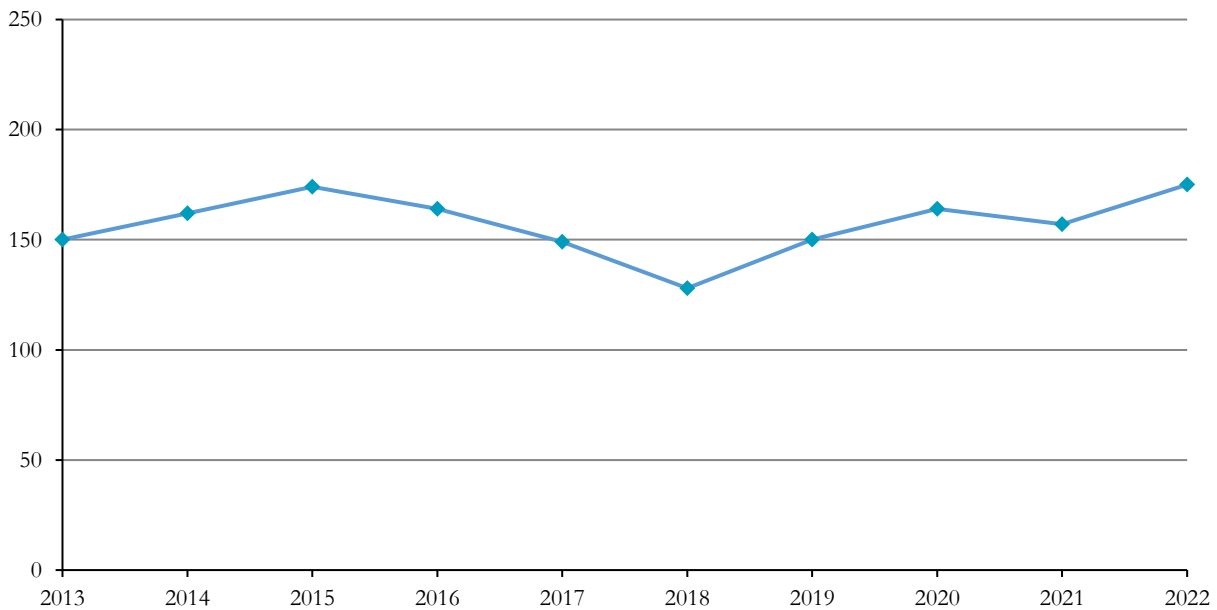
Ira A. Fulton College of Engineering

Summary by Departments

Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards*	Dollars Awarded*
Chemical Engineering	10	24	14	\$3,433,778
Civil & Construction Engineering	15	32	18	\$2,110,060
Electrical & Computer Engineering	20	54	51	\$4,226,674
Manufacturing Engineering	4	6	7	\$530,873
Mechanical Engineering	24	56	50	\$4,094,569
School of Technology	2	3	0	\$149,736
TOTALS	75	175	140	\$14,545,690

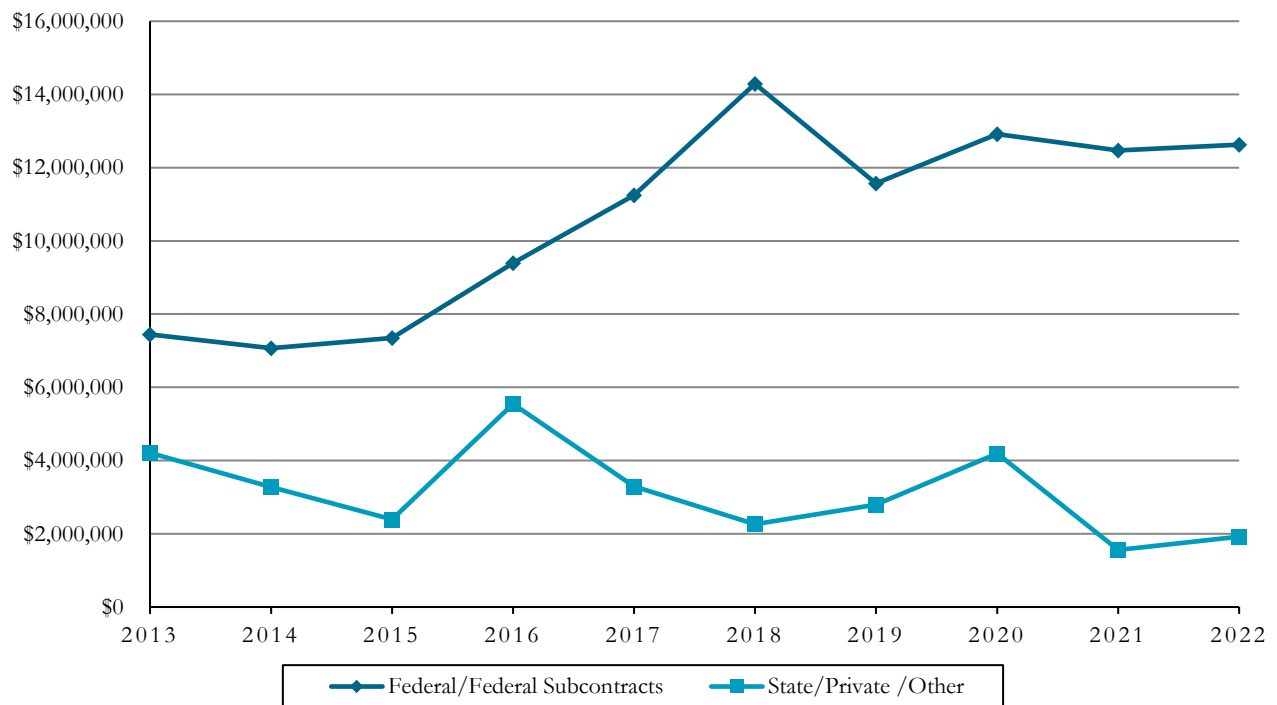
*Number of Awards are counted by PI only, while total Dollars Awarded is split between all researchers

Proposal Submissions



Awards by Sources

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private /Other	
2013	\$7,446,524	\$4,208,437	\$11,654,961
2014	\$7,073,257	\$3,279,114	\$10,352,371
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



Ira A. Fulton College of Engineering 2022 Awards

<u>Researcher</u>	<u>Role</u>	<u>Sponsor</u>	<u>Prime Sponsor</u>	<u>Title</u>	<u>Beg Date</u>	<u>End Date</u>	<u>Account</u>	<u>Amount</u>
<i>Chemical Engineering</i>								
Baxter, Larry	PI	Department of Energy		Integrated University Program	Aug-22	Aug-23	R0202571	\$10,000
Baxter, Larry	PI	Department of Energy		Integrated University Program	Aug-22	Aug-23	R0202572	\$10,000
Baxter, Larry	PI	Department of Energy		Integrated University Program	Aug-22	Aug-25	R0202573	\$161,000
Fletcher, Tom	PI	Cimarron	Department of Energy	Flare and Control for Ultra High Destruction and Removal Efficiency	Apr-22	Apr-23	R0303063	\$54,877
Fry, Andrew	PI	Sandia National Laboratories	Department of Energy	Characterizing Nonadiabatic Behavior During Thermal Runaway of Lithium-Ion Batteries	Feb-22	May-22	R0303045	\$10,000
Fry, Andrew	COI	Cimarron	Department of Energy	Flare and Control for Ultra High Destruction and Removal Efficiency	Apr-22	Apr-23	R0303063	\$54,877
Fry, Andrew	PI	Department of Energy		Testing and model -based optimization of coal-fired primary heater design for indirect supercritical CO2 Power Cycles	Oct-20	Sep-24	R0202545	\$1,451,766
Fry, Andrew	PI	University of Utah	Department of Energy	Deployment of artificial intelligence for dynamic optimization to measure heat rate during ramping for coal-based power plants	Oct-19	Sep-23	R0302897	\$90,267
Hedengren, John	PI	Pacific Northwest National Laboratory	Department of Energy	Developing machine learning interface in a Python optimization package Gekko under the Enhanced Waste Glass (EWG)	Mar-22	Sep-22	R0303052	\$19,998
Hedengren, John	COI	AeroVironment		C-UAS I/UCRC Phase II Industry Sponsors	Mar-17	Jun-22	R0602546	\$2,200
Hedengren, John	COI	AeroVironment		C-UAS I/UCRC Phase II Industry Sponsors	Mar-17	Jun-22	R0602546	\$2,200
Knotts, Thomas	PI	American Institute of Chemical Engineers		DIPPR 801	Jan-18	Dec-22	R0602557	\$371,500
Lignell, David	COI	Cimarron	Department of Energy	Flare and Control for Ultra High Destruction and Removal Efficiency	Apr-22	Apr-23	R0303063	\$54,877
Rapple, Devin	PI	Savannah River National Lab	Department of Energy	Technical Exchange on Pyrochemical Processing	Jan-21	Jan-23	R0303046	\$49,999

Rappleye, Devin	PI	Department of Energy		Two-Step Chloride Volatility Process for Reprocessing Used Nuclear Fuel from Advanced Reactors	Mar-22	Mar-25	R0202568	\$400,217
Wheeler, Dean	PI	EnPower, Inc.		Electrochemical Modeling of Advanced Multilayer Electrodes	May-22	Dec-22	R0602684	\$50,000
Wheeler, Dean	PI	Wasatch Ionics LLC	Army	Phase I STTR: Development of High Energy Density Reserve Lithium-Oxygen Batteries with Integrated Chemical Oxygen Generation	Sep-22	Mar-23	R0303119	\$65,000
Wheeler, Dean	PI	Applied Minerals Inc.	Department of Energy	STTR Phase II: Domestic Halloysite-Derived Silicon as a Low-Cost High-Performance Anode Material for Li-Ion Batteries	Jun-21	Aug-23	R0303129	\$203,500
Wilding, Vincent	COI	American Institute of Chemical Engineers		DIPPR 801	Jan-18	Dec-22	R0602557	\$371,500

Civil & Construction Engineering

Ames, Dan	PI	National Aeronautics and Space Administration		Advancing the NASA GEOGloWS Toolbox for Regional Water Resources Management and Decision Support	Apr-22	Apr-25	R0162044	\$73,224
Ames, Dan	PI	The University of Alabama	National Oceanic & Atmospheric Administration	National Cyberinfrastructure Framework for Engaging the Hydrologic Community (NCF) - CIROH	Aug-22	Jul-23	R0303092	\$144,974
Ames, Dan	PI	National Aeronautics and Space Administration		Advancing the NASA GEOGloWS Toolbox for Regional Water Resources Management and Decision Support	Apr-22	Apr-25	R0162044	\$24,408
Franke, Kevin	COI	AeroVironment		C-UAS I/UCRC Phase II Industry Sponsors	Mar-17	Jun-22	R0602546	\$2,200
Franke, Kevin	COI	National Science Foundation		IUCRC Phase I Brigham Young University: Center for Autonomous Air Mobility and Sensing (CAAMS)	Apr-22	Mar-27	R0112485	\$19,271
Franke, Kevin	COI	AeroVironment		C-UAS I/UCRC Phase II Industry Sponsors	Mar-17	Jun-22	R0602546	\$2,200
Franke, Kevin	PI	National Science Foundation		IUCRC Phase I Brigham Young University: Center for Autonomous Air Mobility and Sensing (CAAMS)	Apr-22	Mar-27	R0112493	\$16,000
Guthrie, W. Spencer	PI	Utah Department of Transportation		Freeze-Thaw Durability of Rapid-Setting Concrete	Jul-22	Dec-23	R0402386	\$39,999
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	\$118,819
Jones, Norm	PI	National Aeronautics and Space Administration		Geospatial Information Tools that use Machine Learning to Enable Sustainable Groundwater Management in West Africa.	Oct-19	Oct-22	R0162039	\$111,754

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	\$73,224
Jones, Norm	COI	The University of Alabama	National Oceanic & Atmospheric Administration	National Cyberinfrastructure Framework for Engaging the Hydrologic Community (NCF) - CIROH	Aug-22	Jul-23	R0303092	\$144,974
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	\$24,408
Judd, Johnn	PI	Simpson Strong-Tie Company		Effect of over-strength factor on seismic capacity of steel moment frame buildings with Strong Frame moment connections	Nov-22	Dec-23	R0602697	\$40,000
Miller, Woodruff	COI	Timpanogos Special Services District	State of Utah	Utah Lake Nutrient Cycling Studies: Phase II	Mar-22	Jun-23	R0402382	\$99,983
Nelson, Jim	COI	University of Houston	Department of Commerce	Forecasting Inundation Extents Using VIIRS and SAR Imagery with National Water Model and GEOGloWS Forecasts	Aug-21	Jun-22	R0303042	\$24,750
Nelson, Jim	PI	World Meteorological Organization		Improving monitoring and hydrological forecasting operational capabilities in Togo	Jan-22	Dec-23	R0570034	\$32,140
Nelson, Jim	COI	National Aeronautics and Space Administration		Advancing the NASA GEOGloWS Toolbox for Regional Water Resources Management and Decision Support	Apr-22	Apr-25	R0162044	\$73,224
Nelson, Jim	COI	The University of Alabama	National Oceanic & Atmospheric Administration	National Cyberinfrastructure Framework for Engaging the Hydrologic Community (NCF) - CIROH	Aug-22	Jul-23	R0303092	\$144,974
Nelson, Jim	COI	National Aeronautics and Space Administration		Advancing the NASA GEOGloWS Toolbox for Regional Water Resources Management and Decision Support	Apr-22	Apr-25	R0162044	\$24,408
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	\$118,819
Rollins, Kyle	PI	National Science Foundation		Collaborative Research: Integrated Field and Laboratory Based Assessment of Liquefaction Triggering and Residual Strength of Gravelly Soil	Sep-17	Aug-22	R0112365	\$46,203
Rollins, Kyle	PI	US Geological Survey	Department of Interior	Evaluation and Improvement of Methods to Consider Influence of Surface Clay Layers on Liquefaction-Induced Settlement from Large Database	Jun-22	Jun-23	R0202574	\$55,319
Scott, Michael	PI	IERUS Technologies, Inc.	DOD Naval Air Systems Command	N22A-TO04: Automatic Hexahedral Mesh Generator for the Electromagnetic Modeling of Complex Navy Platforms with Array Antennas and Radomes	Aug-22	Jan-23	R0303087	\$19,605

Shepherd, Kendrick	COI	IERUS Technologies, Inc.	DOD Naval Air Systems Command	N22A-T004: Automatic Hexahedral Mesh Generator for the Electromagnetic Modeling of Complex Navy Platforms with Array Antennas and Radomes	Aug-22	Jan-23	R0303087	\$19,605
Sorensen, Taylor	PI	PCI Foundation		BYU PCI Design Studio	Jul-22	Jun-25	R0502365	\$44,055
Sorensen, Taylor	PI	Wire Reinforcement Institute		Tensile Strain Validation of Welded-Wire Reinforcement	Sep-22	Aug-23	R0602692	\$9,999
Sowby, Robert	PI	Central Utah Water Conservancy District		Reliable Supply for Utah's Public Water Systems (CUWCD Proposal)	Jul-22	Jun-24	R0402385	\$19,808
Sowby, Robert	PI	Utah Department of Natural Resources		Reliable Supply for Utah's Public Water Systems (DWRe Proposal)	Jul-22	Jun-24	R0402389	\$19,808
Williams, Gus	COI	National Aeronautics and Space Administration		Geospatial Information Tools that use Machine Learning to Enable Sustainable Groundwater Management in West Africa.	Oct-19	Oct-22	R0162039	\$111,754
Williams, Gus	PI	University of Houston	Department of Commerce	Forecasting Inundation Extents Using VIIRS and SAR Imagery with National Water Model and GEOGloWS Forecasts	Aug-21	Jun-22	R0303042	\$24,750
Williams, Gus	PI	Timpanogos Special Services District	State of Utah	Utah Lake Nutrient Cycling Studies: Phase II	Mar-22	Jun-23	R0402382	\$99,983
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	\$73,224
Williams, Gus	COI	Central Utah Water Conservancy District		Reliable Supply for Utah's Public Water Systems (CUWCD Proposal)	Jul-22	Jun-24	R0402385	\$19,808
Williams, Gus	COI	The University of Alabama	National Oceanic & Atmospheric Administration	National Cyberinfrastructure Framework for Engaging the Hydrologic Community (NCF) - CIROH	Aug-22	Jul-23	R0303092	\$144,974
Williams, Gus	COI	Utah Department of Natural Resources		Reliable Supply for Utah's Public Water Systems (DWRe Proposal)	Jul-22	Jun-24	R0402389	\$19,808
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	\$24,408

Electrical and Computer Engineering

Allen, Steven	PI	National Science Foundation		ERI: Magnetic Resonance Imaging of Acoustic Fields for Ultrasound-Based CNS Regeneration	Apr-22	Mar-24	R0112475	\$99,427
Allen, Steven	PI	University of Utah	National Institutes of Health	Feasibility of Transcranial Histotripsy using a Hemispherical Transducer	Apr-22	Mar-23	R0303082	\$16,262
Allen, Steven	PI	National Institutes of Health		Iron Based Coupling Media (IBCM) for MRI-guided Transcranial Ultrasound Surgeries	Sep-22	Jun-23	R0102122	\$519,886
Beard, Randy	PI	Opto-Knowledge Systems, Inc.	Department of Defense	Autonomous Coordinated Teaming and Reconnaissance sUAS (ACTRS) for Remote Precision Strike	Feb-22	Jul-22	R0303049	\$44,892
Beard, Randy	COI	AeroVironment		C-UAS I/UCRC Phase II Industry Sponsors	Mar-17	Jun-22	R0602546	\$2,200
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	\$19,271
Beard, Randy	COI	AeroVironment		C-UAS I/UCRC Phase II Industry Sponsors	Mar-17	Jun-22	R0602546	\$2,200
Beard, Randy	PI	National Science Foundation		IUCRC Phase I Brigham Young University: Center for Autonomous Air Mobility and Sensing (CAAMS) REU	Apr-22	Mar-27	R0112490	\$16,000
Beard, Randy	PI	National Science Foundation		AFRL INTERN: Cooperative GPS-Denied Navigation of Autonomous Air Vehicles in Feature Sparse Environments	Apr-22	Mar-27	R0112492	\$23,226
Beard, Randy	PI	University of Colorado, Boulder	National Science Foundation	Managing Director position for the NSF/IUCRC Center for Autonomous Air Mobility and Sensing (CAAMS)	Apr-22	Mar-27	R0303091	\$206,745
Beard, Randy	PI	Scientific Systems Company, Inc.	Air Force	STTR PII - Agility Prime - SSCI - Open Autonomy Safety Enhancement System (OASES)	Aug-22	Aug-23	R0303110	\$208,710
Camacho, Ryan	PI	Nevada National Security Site	Department of Energy	Feasibility Study of X-ray Quantum Imaging	Jan-22	Sep-22	R0303044	\$25,000
Camacho, Ryan	PI	Nevada National Security Site	Department of Energy	Feasibility Study of X-ray Quantum Imaging	Jan-22	Sep-22	R0303044	\$35,000
Camacho, Ryan	COI	Nevada National Security Site	Department of Energy	Feasibility Study of X-ray Quantum Imaging	Jan-22	Sep-23	R0303109	\$41,098
Camacho, Ryan	PI	University of Arizona	National Science Foundation	NSF Engineering Research Center for Quantum Networks (CQN) - INTERN 2022	May-22	Dec-22	R0303125	\$110,000
Camacho, Ryan	PI	University of Arizona	National Science Foundation	Photonic Circuit Simulation for NSF Engineering Research Center for Quantum Networks (CQN)	Sep-20	Aug-23	R0302961	\$100,000
Chiang, Shih-hua Wood	COI	Los Alamos National Laboratory	Department of Energy	Diamond Detector Readout Electronics for X-Ray Ptychography	Sep-22	Sep-24	R0303106	\$49,130
Goeders, Jeff	COI	Blue Origin, LLC		SHREC I/UCRC Industry Membership Dues	Sep-17	Aug-23	R0602555	\$10,000
Goeders, Jeff	COI	Pennsylvania State University	Defense Threat Reduction Agency	Interaction of Ionizing Radiation with Matter, University Research Alliance (IIRM-URA)	Jul-20	Feb-23	R0302947	\$75,000

Goeders, Jeff	COI	BAE Systems, Inc.		SHREC I/UCRC Industry Membership Dues	Sep-17	Aug-23	R0602555	\$10,000
Goeders, Jeff	COI	Ball Aerospace & Technologies Corp		SHREC I/UCRC Industry Membership Dues	Sep-17	Aug-23	R0602555	\$10,000
Goeders, Jeff	COI	National Science Foundation		Phase-I- I/UCRC Brigham Young University: Center for Space, High-Performance, and Resilient Computing (SHREC) MIPR: Government Memberships	Sep-17	Aug-23	R0112389	\$13,200
Goeders, Jeff	PI	Office of Naval Research	Department of Defense	FPGA Bitstream-level Equivalence Checking: Securing the FPGA "Digital Fab"	Aug-22	Jul-25	R0202577	\$45,000
Goeders, Jeff	COI	Raytheon		SHREC I/UCRC Industry Membership Dues	Sep-17	Aug-23	R0602555	\$10,000
Goeders, Jeff	PI	GrammaTech	Office of Naval Research	Grammatech STTR Phase 2 - Bitstream Security	Jul-20	Dec-22	R0302955	\$20,000
Hansen, Derek	PI	Sandia National Laboratories	Department of Energy	IT&C Capstone and Cybersecurity Research	Sep-22	Aug-23	R0303095	\$4,000
Hansen, Derek	PI	Sandia National Laboratories	Department of Energy	IT&C Capstone and Cybersecurity Research	Sep-22	Aug-23	R0303096	\$16,000
Hawkins, Aaron	PI	National Science Foundation		Collaborative Research: A Tunable Astrophotonic Spectrometer with Adaptive Faint-Source Extraction	Sep-22	Aug-25	R0112497	\$168,000
Hawkins, Aaron	PI	University of California - Santa Cruz	National Institutes of Health	Nanopore-based multi-target analysis of Zika virus infection	Aug-19	Apr-23	R0302873	\$101,175
Hutchings, Brad	COI	Blue Origin, LLC		SHREC I/UCRC Industry Membership Dues	Sep-17	Aug-23	R0602555	\$10,000
Hutchings, Brad	COI	BAE Systems, Inc.		SHREC I/UCRC Industry Membership Dues	Sep-17	Aug-23	R0602555	\$10,000
Hutchings, Brad	COI	Ball Aerospace & Technologies Corp		SHREC I/UCRC Industry Membership Dues	Sep-17	Aug-23	R0602555	\$10,000
Hutchings, Brad	COI	National Science Foundation		Phase-I- I/UCRC Brigham Young University: Center for Space, High-Performance, and Resilient Computing (SHREC) MIPR: Government Memberships	Sep-17	Aug-23	R0112389	\$13,200
Hutchings, Brad	COI	Raytheon		SHREC I/UCRC Industry Membership Dues	Sep-17	Aug-23	R0602555	\$10,000
Lee, D.J.	COI	Cimarron	Department of Energy	Flare and Control for Ultra High Destruction and Removal Efficiency	Apr-22	Apr-23	R0303063	\$54,877
Lee, D.J.	PI	Orbital Bridge LLC	Air Force Research Laboratory	Computer Vision for Autonomous OSAM Operations	Sep-22	Jul-23	R0303108	\$20,000
Long, David	PI	National Aeronautics and Space Administration		Consistency in the Scatterometer Climate Record	Oct-19	Oct-22	R0162035	\$150,300
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-23	R0302938	\$43,000
Long, David	PI	Space Zero Gravity LLC		CubeSat Educational Workshop	Jul-22	Aug-22	R0602688	\$15,150

Long, David	PI	National Aeronautics and Space Administration		Global L-band Active/Passive Observatory for Water Cycle Studies (GLOWS)	Feb-20	Jan-23	R0162041	\$100,863
Long, David	PI	Idaho National Laboratory	Department of Energy	2022-23 Capstone Project: Idaho National Laboratory	Aug-22	Apr-23	R0303089	\$26,000
Long, David	PI	Lawrence Livermore National Labs	Department of Energy	Lawrence Livermore Capstone projects	Aug-22	May-23	R0303093	\$23,500
Long, David	PI	Northrop Grumman		BYU Capstone project	Jul-22	Aug-23	R0602691	\$22,000
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-23	R0302938	\$43,000
Long, David	PI	Lawrence Livermore National Labs	Department of Energy	Lawrence Livermore Capstone projects	Sep-22	May-23	R0303100	\$52,000
Long, David	PI	Los Alamos National Laboratory	Department of Energy	Capstone Projects	Aug-22	Sep-23	R0303107	\$22,000
Lundrigan, Phil	PI	National Science Foundation		CRII: CNS: Building A Framework for Software-Based Wireless Sub-Protocols	May-22	Apr-24	R0112476	\$171,494
Lundrigan, Phil	COI	National Science Foundation		Collaborative: SWIFT: Large: Spectrum Sharing Via Interference-resilient Passive Receivers and Passive-aware Active Services	Sep-20	Aug-23	R0112450	\$24,468
Mangelson, Joshua	PI	Office of Naval Research	Department of Defense	Cross-Modality Localization and Mapping	Apr-21	Apr-24	R0202552	\$90,000
Mangelson, Joshua	PI	Office of Naval Research	Department of Defense	Cross-Modality Localization and Mapping	Apr-21	Apr-24	R0202552	\$94,770
Mazzeo, Brian	COI	Applied Minerals Inc.	Department of Energy	STTR Phase II: Domestic Halloysite-Derived Silicon as a Low-Cost High-Performance Anode Material for Li-Ion Batteries	Jun-21	Aug-23	R0303129	\$203,500
Nelson, Brent	COI	Blue Origin, LLC		SHREC I/UCRC Industry Membership Dues	Sep-17	Aug-23	R0602555	\$10,000
Nelson, Brent	COI	BAE Systems, Inc.		SHREC I/UCRC Industry Membership Dues	Sep-17	Aug-23	R0602555	\$10,000
Nelson, Brent	COI	Ball Aerospace & Technologies Corp		SHREC I/UCRC Industry Membership Dues	Sep-17	Aug-23	R0602555	\$10,000
Nelson, Brent	COI	Raytheon		SHREC I/UCRC Industry Membership Dues	Sep-17	Aug-23	R0602555	\$10,000
Nordin, Greg	COI	National Institutes of Health		3D printed, multi-material microfluidic calorimetry: Critical tools to study protein stability	Sep-22	Aug-25	R0102124	\$133,628
Peterson, Cameron	PI	4-D Avionics Systems, LLC	National Science Foundation	Autonomous 4D Flightpath Based Airborne Separation Assurance System NSF SBIR, Phase I	Jan-22	Dec-22	R0303043	\$42,667
Peterson, Cameron	COI	AeroVironment		C-UAS I/UCRC Phase II Industry Sponsors	Mar-17	Jun-22	R0602546	\$2,200
Peterson, Cameron	COI	National Science Foundation		IUCRC Phase I Brigham Young University: Center for Autonomous Air Mobility and Sensing (CAAMS)	Apr-22	Mar-27	R0112485	\$19,271

Peterson, Cameron	COI	AeroVironment		C-UAS I/UCRC Phase II Industry Sponsors	Mar-17	Jun-22	R0602546	\$2,200
Peterson, Cameron	PI	National Science Foundation		REU for IUCRC Phase I Brigham Young University: Center for Autonomous Air Mobility and Sensing (CAAMS)	Apr-22	Mar-27	R0112495	\$15,683
Rice, Michael	PI	L3Harris Technologies, Inc. Communication Systems-West		Multi-antenna CDMA Receiver Follow-on	Apr-22	Mar-23	R0602676	\$67,068
Schultz, Stephen	PI	Nielson Scientific, LLC	Army	Development and Testing of a Transparent Cryogenic Probe Card Based on Silicon Carbide MEMS	Feb-21	Jun-23	R0302982	\$214,548
Schultz, Stephen	PI	Nielson Scientific, LLC	Department of Energy	Integrated Development of Advanced Terahertz, Infrared, and Millimeter-Wave Filters Using a Scalable Proprietary Ablation Process	Aug-22	Aug-23	R0303117	\$50,734
Smalley, Daniel	PI	National Science Foundation		Breakthrough Display Technology as a New Medium for Spatial Thinking in STEM	Apr-19	Mar-24	R0112478	\$16,000
Smalley, Daniel	PI	National Science Foundation		Breakthrough Display Technology as a New Medium for Spatial Thinking in STEM	Apr-19	Mar-24	R0112399	\$110,614
Smalley, Daniel	PI	National Science Foundation		I-Corps: Virtual Display Creation and Demonstration for Industry and Individual Designers	Jun-22	Nov-22	R0112484	\$50,000
Smalley, Daniel	PI	Light Field Lab, Inc.		FENG Characterization & Transparent "Sell" Membrane Ultrasonic Transducers	Jul-18	Nov-24	R0602687	\$33,273
Smalley, Daniel	PI	National Science Foundation		Breakthrough Display Technology as a New Medium for Spatial Thinking in STEM	Apr-19	Mar-24	R0112399	\$17,778
Warnick, Karl	PI	ImSAR, LLC	Office of Naval Research	Steerable, Directional Antennas to Increase Small Mobile Platform Communication Range	Jun-22	Jun-23	R0303066	\$56,000
Warnick, Karl	PI	National Science Foundation		Collaborative: SWIFT: Large: Spectrum Sharing Via Interference-resilient Passive Receivers and Passive-aware Active Services	Sep-20	Aug-23	R0112450	\$24,468
Wirthlin, Michael	PI	Blue Origin, LLC		SHREC I/UCRC Industry Membership Dues	Sep-17	Aug-23	R0602555	\$10,000
Wirthlin, Michael	PI	Pennsylvania State University	Defense Threat Reduction Agency	Interaction of Ionizing Radiation with Matter, University Research Alliance (IIRM-URA)	Jul-20	Feb-23	R0302947	\$75,000
Wirthlin, Michael	PI	BAE Systems, Inc.		SHREC I/UCRC Industry Membership Dues	Sep-17	Aug-23	R0602555	\$10,000
Wirthlin, Michael	PI	Ball Aerospace & Technologies Corp		SHREC I/UCRC Industry Membership Dues	Sep-17	Aug-23	R0602555	\$10,000
Wirthlin, Michael	PI	National Science Foundation		Phase-I- I/UCRC Brigham Young University: Center for Space, High-Performance, and Resilient Computing (SHREC) - MIPR: Government Memberships	Sep-17	Aug-23	R0112389	\$13,600
Wirthlin, Michael	PI	Raytheon		SHREC I/UCRC Industry Membership Dues	Sep-17	Aug-23	R0602555	\$10,000

Manufacturing Engineering

George, Andy	PI	ElectraFly, LLC	Air Force Research Laboratory	STTR: Application of Novel Composite Techniques in the Building of a VTOL Aircraft	Jul-22	Mar-23	R0303083	\$225,000
Hovanski, Yuri	PI	Northrop Grumman		Mobile Smart Manufacturing Demonstrator	Aug-22	Aug-23	R0602693	\$33,000
Hovanski, Yuri	PI	Bond Technologies, Inc.		Center of Friction Stir Processing Membership	Dec-19	Nov-50	R0602623	\$6,250
Hovanski, Yuri	PI	Bond Technologies, Inc.		Center of Friction Stir Processing Membership	Dec-19	Nov-50	R0602623	\$6,250
Miles, Michael	COI	National Science Foundation		Improving Friction Stir Welding: Quantifying Thermal Interfaces using Thermal Waves	Jan-20	Dec-22	R0112431	\$8,000
Miles, Michael	COI	National Science Foundation		Collaborative Research: GOALI: Understanding multiscale mechanics of cyclic bending under tension to improve elongation-to-fracture of hexagonal metals	Sep-22	Aug-25	R0112508	\$157,373
Nelson, Tracy	PI	General Electric Global Research	Department of Defense	HRO01121S0033 Morphogenic Interfaces (MINT) BAA	Mar-22	Jun-23	R0303056	\$35,000
Nelson, Tracy	PI	General Electric Global Research	Department of Defense	HRO01121S0033 Morphogenic Interfaces (MINT) BAA	Mar-22	Jun-23	R0303056	\$30,000
Nelson, Tracy	PI	General Electric Global Research	Department of Defense	HRO01121S0033 Morphogenic Interfaces (MINT) BAA	Mar-22	Jun-23	R0303056	\$30,000

Mechanical Engineering

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	\$69,231
Allen, Matt	PI	Sandia National Laboratories	Department of Energy	Amplitude Dependent System Identification with Modal Coupling	Feb-22	Sep-22	R0303048	\$75,058
Allen, Matt	PI	Nu Skin Enterprises, Inc.		Drop Testing for Medical Devices	Jun-22	Aug-22	R0602685	\$11,058
Allen, Matt	PI	Kansas City National Security Campus	Department of Energy	Influence of Boundary Conditions in Smart Environmental Testing	Nov-21	Nov-22	R0303090	\$25,000
Allen, Matt	PI	Kansas City National Security Campus	Department of Energy	Continuation: Influence of Boundary Conditions in Smart Environmental Testing	Nov-22	Aug-23	R0303130	\$65,000
Blotter, Jonathan	COI	Whisper Aero	Air Force	STTR Phase II. eVTOL Aeroacoustic Design Framework Development	Mar-22	Jun-23	R0303065	\$125,194
Blotter, Jonathan	COI	Caterpillar		Detection of external speech signals in noise and development of next-generation audio system	Jan-22	Dec-22	R0602681	\$32,989
Bowden, Anton	PI	National Institutes of Health		Arthritis, Musculoskeletal and Skin Diseases Research	Sep-21	Aug-24	R0102114	\$91,260
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	Oct-21	Sep-23	R0303038	\$332

Bowden, Anton	PI	University of North Carolina - Chapel Hill	National Institutes of Health	BEST Trial Deep Phenotyping Using the SPINE Sense System	Oct-21	Sep-23	R0303038	\$3,576
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	Oct-21	Sep-23	R0303038	\$5,671
Bowden, Anton	PI	University of North Carolina - Chapel Hill	National Institutes of Health	Collaborative utilization and assessment of biomechanics technologies within the BACPAC consortium	Aug-22	Jul-23	R0303122	\$40,445
Bowden, Anton	PI	University of North Carolina - Chapel Hill	National Institutes of Health	Expanding BACPAC Capacity: phenotyping non-LBP controls for BACPAC consortium research	Aug-22	Jul-23	R0303123	\$57,361
Cook, Douglas	PI	Bayer		Continuation: Maize Stalk Strength	Jul-21	Jun-22	R0602668	\$73
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
Cook, Douglas	PI	Department of Agriculture		Engineering for Agricultural Production Systems PARTNERSHIP: The Influence of Leaf Sheath on Greensnap Grain Failure	Aug-22	Jul-26	R0202583	\$686,767
Cook, Douglas	PI	Department of Agriculture		Engineering for Agricultural Production Systems PARTNERSHIP: The Influence of Leaf Sheath on Greensnap Grain Failure	Aug-22	Jul-26	R0202584	\$44,000
Crane, Nathan	PI	National Science Foundation		Collaborative Research: Modulating Powder Bed Cohesion to Reduce Defects in Binder Jetting	Aug-20	Jul-23	R0112455	\$8,000
Crane, Nathan	PI	National Science Foundation		I-CORP: Expanding Additive Manufacturing Utilization through Post Processing for Improved Mechanical Properties	Apr-22	Sep-22	R0112479	\$50,000
Crane, Nathan	PI	Octagon II	Air Force Research Laboratory	Additive Manufacturing of Radiation Hardened Components for Orbital Position Tracking	Jul-22	Dec-22	R0303081	\$28,500
Crane, Nathan	PI	National Science Foundation		Collaborative Research: Microfluidic MM-Wave RF Devices with Integrated Actuation	Sep-19	Aug-23	R0112434	\$8,000
Crane, Nathan	PI	Spectral Energies, LLC	Air Force	Real-time additive manufacturing defect mitigation using pulsed thermography	Aug-22	Jan-23	R0303098	\$37,500
Crane, Nathan	COI	Duracell		Optimizing Battery Safety Layer Formulation: Enhanced Humidity Tolerance to Prevent Premature Failure	Oct-22	Sep-23	R0602695	\$32,000
Dillon, Christopher	COI	Sandia National Laboratories	Department of Energy	BYU/SNL Reduced Order Methods Collaboration	Apr-22	Sep-22	R0303054	\$7,500
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	Oct-21	Sep-23	R0303038	\$322

Fullwood, David	COI	University of North Carolina - Chapel Hill	National Institutes of Health	BEST Trial Deep Phenotyping Using the SPINE Sense System	Oct-21	Sep-23	R0303038	\$3,471
Fullwood, David	PI	University of Utah	National Aeronautics and Space Administration	BYU Rocketry 2023 IREC Participation	May-22	May-23	R0303076	\$5,000
Fullwood, David	PI	National Science Foundation		Collaborative Research: GOALI: Understanding multiscale mechanics of cyclic bending under tension to improve elongation-to-fracture of hexagonal metals	Sep-22	Aug-25	R0112508	\$157,373
Fullwood, David	PI	University of Utah	National Aeronautics and Space Administration	BYU Rocketry 2023 IREC Participation	May-22	May-23	R0303076	\$5,000
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	Oct-21	Sep-23	R0303038	\$5,504
Fullwood, David	COI	University of North Carolina - Chapel Hill	National Institutes of Health	Collaborative utilization and assessment of biomechanics technologies within the BACPAC consortium	Aug-22	Jul-23	R0303122	\$39,255
Hill, Jeff	COI	Caterpillar		Detection of external speech signals in noise and development of next-generation audio system	Jan-22	Dec-22	R0602681	\$32,989
Homer, Eric	PI	National Science Foundation		Collaborative Research: Martensitic Transformations in Paraelectric Shape Memory Ceramics Activated by an Electric Field	Jul-22	Jun-26	R0112488	\$228,014
Howell, Larry	PI	Air Force Research Laboratory	Department of Defense	Enabling Dual-Use Elements Through Origami-Inspired Deployable Systems	Apr-22	May-24	R0202569	\$125,000
Howell, Larry	COI	Science Systems and Applications, Inc.	National Aeronautics and Space Administration	Conceptual Design and Prototyping of Origami-Based Deployable Systems for LIDAR Telescopes	Jul-20	Mar-23	R0303080	\$25,000
Howell, Larry	COI	Florida International University	Air Force Office of Scientific Research	Transforming Antennas Center (TAC)	Aug-19	Aug-24	R0302882	\$75,000
Howell, Larry	PI	VentureWell		LaparoVision: Stage 2 funding	Dec-22	Jun-24	R0502382	\$20,000
Iverson, Brian	PI	National Aeronautics and Space Administration		Passively Actuated, Triangular Fin Array for CubeSat Thermal Control	Aug-21	Aug-23	R0162043	\$69,500
Jensen, Brian	COI	Tula Health, Inc.		TULA health - Non-Invasive health sensing	Apr-21	Aug-25	R0602659	\$69,250
Jensen, Brian	COI	Tula Health, Inc.		TULA health - Non-Invasive health sensing	Apr-21	Aug-25	R0602659	\$71,615
Jones, Matt	PI	Sandia National Laboratories	Department of Energy	BYU/SNL Reduced Order Methods Collaboration	Apr-22	Sep-22	R0303054	\$7,500
Jones, Matt	COI	Spectral Energies, LLC	Air Force	Real-time additive manufacturing defect mitigation using pulsed thermography	Aug-22	Jan-23	R0303098	\$37,500
Killpack, Marc	PI	Gingerbread Homes Inc.		Design optimization and validation of robotic construction systems	Aug-22	Apr-23	R0602690	\$44,389

Magleby, Spencer	COI	Air Force Research Laboratory	Department of Defense	Enabling Dual-Use Elements Through Origami-Inspired Deployable Systems	Apr-22	May-24	R0202569	\$125,000
Magleby, Spencer	PI	Science Systems and Applications, Inc.	National Aeronautics and Space Administration	Conceptual Design and Prototyping of Origami-Based Deployable Systems for LIDAR Telescopes	Jul-20	Mar-23	R0303080	\$25,000
Magleby, Spencer	PI	Florida International University	Air Force Office of Scientific Research	Transforming Antennas Center (TAC)	Aug-19	Aug-24	R0302882	\$75,000
Mattson, Chris	PI	United States Air Force Academy	Department of Defense	Effective Use of Product Architecture to Help Engineering Teams Manage Complexity in the Design Process	Oct-21	Sep-25	R0202564	\$53,516
McLain, Tim	PI	Lawrence Livermore National Labs	Department of Energy	UAS Precision Landing by Fusing RTK GPS and Optical Sensor Data	Oct-20	Sep-22	R0302951	\$76,941
McLain, Tim	PI	AeroVironment		C-UAS I/UCRC Phase II Industry Sponsors	Mar-17	Jun-22	R0602546	\$2,200
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	\$19,271
McLain, Tim	PI	AeroVironment		C-UAS I/UCRC Phase II Industry Sponsors	Mar-17	Jun-22	R0602546	\$2,200
McLain, Tim	COI	National Science Foundation		AFRL INTERN: Cooperative GPS-Denied Navigation of Autonomous Air Vehicles in Feature Sparse Environments	Apr-22	Mar-27	R0112492	\$23,226
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	Archer Aviation	Air Force	STTR Phase II: Precision Landing Localization for Autonomous eVTOL Aircraft in GPS-denied Environments	Mar-22	Jun-23	R0303059	\$224,602
Munro, Troy	PI	National Science Foundation		Improving Friction Stir Welding: Quantifying Thermal Interfaces using Thermal Waves	Jan-20	Dec-22	R0112431	\$8,000
Munro, Troy	PI	Idaho National Laboratory	Department of Energy	Center for Advanced Energy Studies (CAES) Collaboration Fund Proposal Program Development Activities	Apr-22	Dec-22	R0303061	\$25,667
Munro, Troy	PI	National Institutes of Health		3D printed, multi-material microfluidic calorimetry: Critical tools to study protein stability	Sep-22	Aug-25	R0102124	\$137,678
Munro, Troy	PI	Idaho National Laboratory	Department of Energy	Center for Advanced Energy Studies (CAES) Collaboration Fund Proposal Program Development Activities	Apr-22	Dec-22	R0303061	\$5,999
Ning, Andrew	PI	National Renewable Energy Laboratory	Department of Energy	Advanced Numerical and Physics Modeling for Wind Plant Array Optimization	Oct-21	Sep-22	R0303024	\$33,207
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	\$19,271
Ning, Andrew	PI	Whisper Aero	Air Force	STTR Phase II. eVTOL Aeroacoustic Design Framework Development	Mar-22	Jun-23	R0303065	\$125,194

Ning, Andrew	PI	University of California- San Diego	National Aeronautics and Space Administration	Rapid development of urban air mobility vehicle concepts through full-configuration multidisciplinary design, analysis, and optimization	Oct-21	Sep-23	R0303031	\$230,000
Salmon, John	COI	4-D Avionics Systems, LLC	National Science Foundation	Autonomous 4D Flightpath Based Airborne Separation Assurance System NSF SBIR, Phase I	Jan-22	Dec-22	R0303043	\$42,667
Sorensen, Carl	PI	Idaho National Laboratory	Department of Energy	THOR Capsule Unloading Fixture	Sep-21	Apr-22	R0303021	\$10,000
Sorensen, Carl	PI	COLSA Corporation	Department of Defense	Automated Motorized Space Force Ground Antennae	Nov-21	Apr-22	R0303041	\$22,000
Sorensen, Carl	PI	Los Alamos National Laboratory	Department of Energy	LANL Q-6 PDV Windowed Probe Design for Manufacturability	Jan-21	Dec-22	R0303060	\$22,000
Sorensen, Carl	COI	United States Air Force Academy	Department of Defense	Effective Use of Product Architecture to Help Engineering Teams Manage Complexity in the Design Process	Oct-21	Sep-25	R0202564	\$53,516
Sorensen, Carl	PI	COLSA Corporation	Department of Defense	United States Space Force Auto-Tracking Antenna	Nov-22	Apr-23	R0303118	\$22,000
Terry, Benjamin	PI	Caytu, Inc.		Measuring the value of a headed vs headless crowd-sourced, semi-autonomous delivery robot	Jun-22	Nov-22	R0602683	\$1758
Terry, Benjamin	PI	University of Nebraska-Lincoln	National Institutes of Health	Peritoneal Oxygen Delivery for the Treatment of Acute Respiratory Distress Syndrome	May-22	Jan-23	R0303079	\$35,015
Thomson, Scott	PI	McGill University	National Institutes of Health	Bioprintable composite materials and microfluidic tools for vocal fold restoration and repair	Jan-21	Dec-22	R0302965	\$117,046

School of Technology

Wright, Geoffrey	COI	National Security Agency		2023 BYU GenCyber Teacher Camp	Sep-22	Sep-24	R0202579	\$53,129
Wright, Geoffrey	COI	National Security Agency		2023 BYU Cybersecurity Youth Camp	Sep-22	Sep-24	R0202580	\$60,440
Wright, Geoffrey	COI	National Security Agency		2023 BYU GenCyber Teacher Camp	Sep-22	Sep-24	R0202581	\$21,608
Wright, Geoffrey	COI	National Security Agency		2023 BYU Cybersecurity Youth Camp	Sep-22	Sep-24	R0202582	\$14,559



**College of Family,
Home, & Social
Sciences**

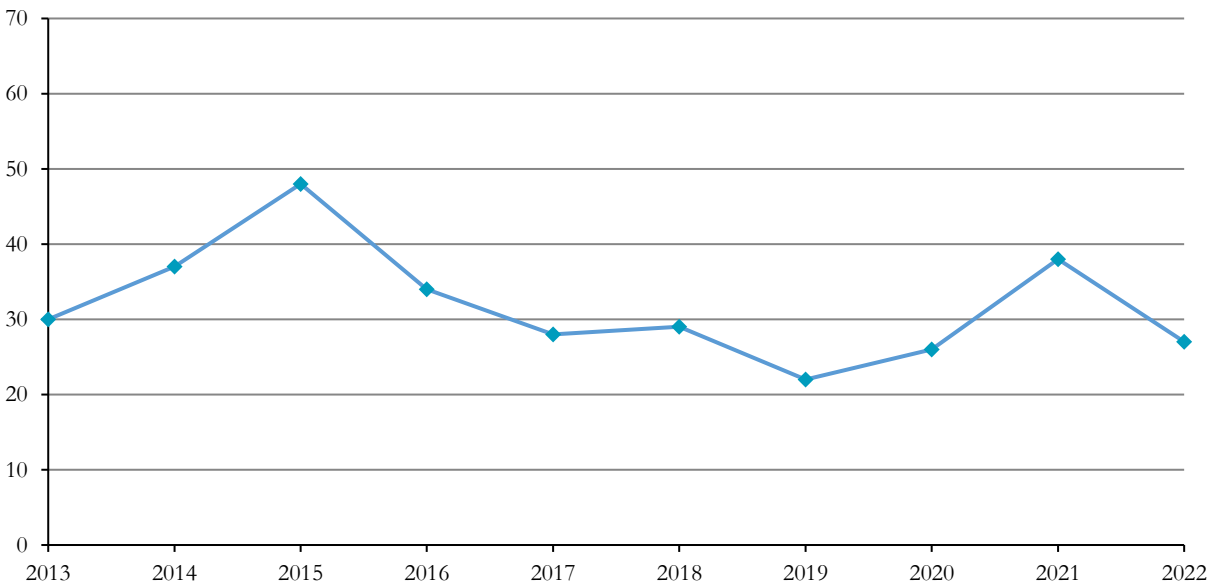
Spencer W. Kimball
Tower

Summary by Departments

Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards*	Dollars Awarded*
Anthropology	0	0	0	\$0
Economics	4	6	5	\$130,351
Geography	1	2	0	\$0
History	2	3	4	\$511,336
Museum of Peoples & Cultures	0	0	0	\$0
Political Science	1	2	0	\$725,949
Psychology	6	9	3	\$125,866
School of Family Life	2	2	1	\$56,642
School of Social Work	2	2	1	\$18,385
Sociology	1	1	2	\$24,396
TOTALS	19	27	16	\$1,592,925

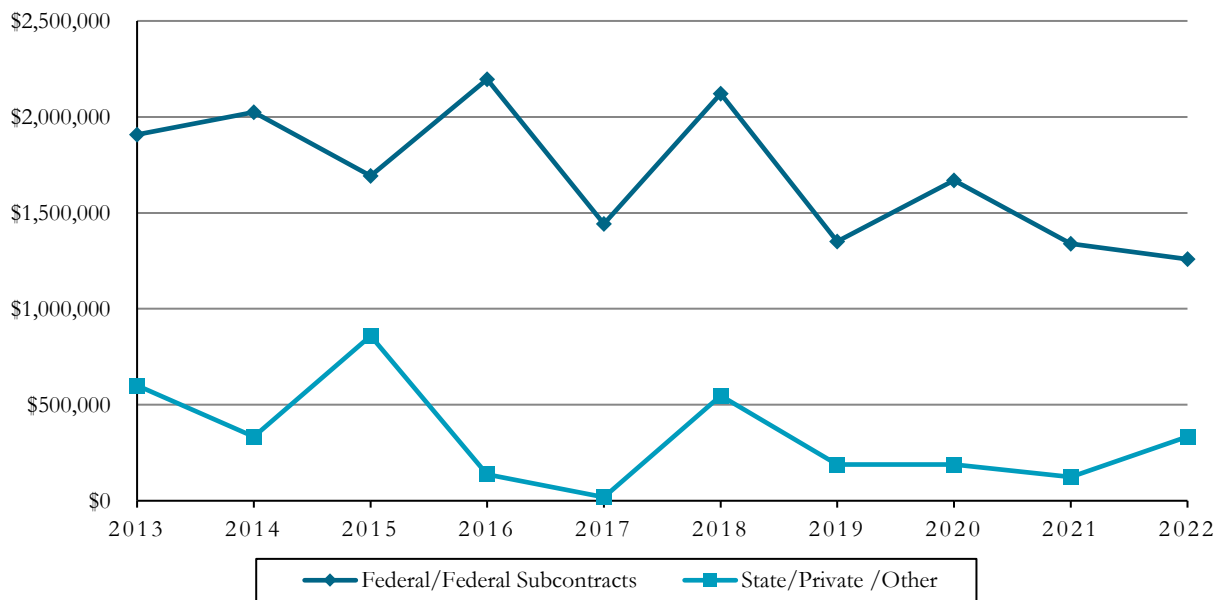
*Number of Awards are counted by PI only, while total Dollars Awarded is split between all researchers

Proposal Submissions



Awards by Sources

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private /Other	
2013	\$1,908,007	\$600,123	\$2,377,935
2014	\$2,024,525	\$334,700	\$2,359,225
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



College of Family, Home, & Social Sciences 2022 Awards

<u>Researcher</u>	<u>Role</u>	<u>Sponsor</u>	<u>Prime Sponsor</u>	<u>Title</u>	<u>Beg Date</u>	<u>End Date</u>	<u>Account</u>	<u>Amount</u>
<i>Economics</i>								
Denning, Jeff	PI	Columbia University	Arnold Ventures	The Effect of Graduate PLUS Student Loan Increases on Access, Program Prices, Student Debt, and Labor Market Outcomes	Jan-21	Dec-22	R0502346	\$25,976
Denning, Jeff	PI	University of Colorado, Boulder	Spencer Foundation	The Credit Consequences of College Attendance	Aug-22	Jul-24	R0502375	\$25,778
Pope, Arden	PI	University of Louisville	National Institutes of Health	Endothelial progenitor cells and particulate air pollution	Apr-20	Mar-23	R0302786	\$61,962
Stoddard, Olga	PI	Russell Sage Foundation		Gender and leadership in teams: experimental evidence from in-person and online team meetings	Jan-22	Dec-22	R0502360	\$11,635
Wilson, Riley	PI	W.E. Upjohn Institute for Employment Research		How Does Legal Status Affect Immigrants' Internal Geographic Mobility? Evidence from DACA	May-22	Sep-23	R0502367	\$5,000
<i>History</i>								
Cannon, Brian	PI	The Church of Jesus Christ of Latter-day Saints		Ottoman Census of Palestine Index/Research	May-21	Dec-22	R0702020	\$58,750
Crandell, Jill	PI	University of Wisconsin-Madison	Department of Defense	Defense POW/MIA Accounting Agency Repatriation Project	Sep-19	Sep-23	R0302894	\$75,000
McCollum, Jonathon	COI	The Church of Jesus Christ of Latter-day Saints		Ottoman Census of Palestine Index/Research	May-21	Dec-22	R0702020	\$58,750
Shumway, Jeffrey	PI	University of Utah	Department of Education	FLAS Grant	Aug-22	Aug-23	R0303120	\$249,667
Shumway, Jeffrey	PI	University of Utah	Department of Education	Title VI NRC Grant	Aug-22	Aug-23	R0303121	\$69,169

Political Science

Argyle, Lisa	COI	National Science Foundation		EAGER: Harnessing Accurate Bias in Large-Scale Language Models	Sep-21	Feb-23	R0112468	\$31,491
Argyle, Lisa	COI	National Science Foundation		MRI: Acquisition of the LanguageLens for Large-Scale Language Modeling	Aug-22	Jul-25	R0112506	\$199,763
Argyle, Lisa	COI	National Science Foundation		MRI: Acquisition of the LanguageLens for Large-Scale Language Modeling-REU	Aug-22	Jul-25	R0112507	\$3,200
Busby, Ethan	COI	National Science Foundation		EAGER: Harnessing Accurate Bias in Large-Scale Language Models	Sep-21	Feb-23	R0112468	\$31,491
Busby, Ethan	COI	National Science Foundation		MRI: Acquisition of the LanguageLens for Large-Scale Language Modeling	Aug-22	Jul-25	R0112506	\$199,763
Busby, Ethan	COI	National Science Foundation		MRI: Acquisition of the LanguageLens for Large-Scale Language Modeling-REU	Aug-22	Jul-25	R0112507	\$3,200
Gubler, Joshua	COI	National Science Foundation		EAGER: Harnessing Accurate Bias in Large-Scale Language Models	Sep-21	Feb-23	R0112468	\$31,491
Gubler, Joshua	COI	National Science Foundation		MRI: Acquisition of the LanguageLens for Large-Scale Language Modeling	Aug-22	Jul-25	R0112506	\$199,763
Gubler, Joshua	COI	National Science Foundation		MRI: Acquisition of the LanguageLens for Large-Scale Language Modeling-REU	Aug-22	Jul-25	R0112507	\$3,200
Karpowitz, Chris	COI	Russell Sage Foundation		Gender and leadership in teams: experimental evidence from in-person and online team meetings	Jan-22	Dec-22	R0502360	\$11,293
Preece, Jessica	COI	Russell Sage Foundation		Gender and leadership in teams: experimental evidence from in-person and online team meetings	Jan-22	Dec-22	R0502360	\$11,293

Psychology

Holt-Lunstad, Julianne	PI	University of Georgia	Eventbrite	Creating Social Connection through Events	Jun-22	May-23	R0602689	\$53,793
Larson, Michael	PI	HitIQ		Virtual Reality Cognitive Testing Psychometric Validation	Nov-21	Dec-22	R0602680	\$18,073
Steffensen, Scott	PI	Noorda College of Osteopathic Medicine		Collaborative research between NCOM and BYU: Mechanisms Underlying the Development and Treatment of Substance-Use Disorder	Jun-22	May-25	R0802050	\$54,000

School of Family Life

Coyne, Sarah	PI	Georgetown University	National Institutes of Health	Early childhood and digital media	Sep-22	Aug-23	R0303133	\$56,642
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Social Work

Clark, Charlene	PI	Utah Commission on Service & Volunteerism	AmeriCorps	AmeriCorps Program 2022-23	Aug-22	Jul-23	R0303103	\$18,385
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Sociology

Ward, Carol	PI	Chief Dull Knife College	National Science Foundation	Evaluation of CDKC Project: Research Engagement Across Curricular Tracks: Environmental Research Internships	Oct-21	Sep-23	R0303047	\$12,198
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Ward, Carol	PI	Chief Dull Knife College	National Science Foundation	Evaluation of CDKC Project: Research Engagement Across Curricular Tracks: Environmental Research Internships	Oct-21	Sep-23	R0303047	\$12,198
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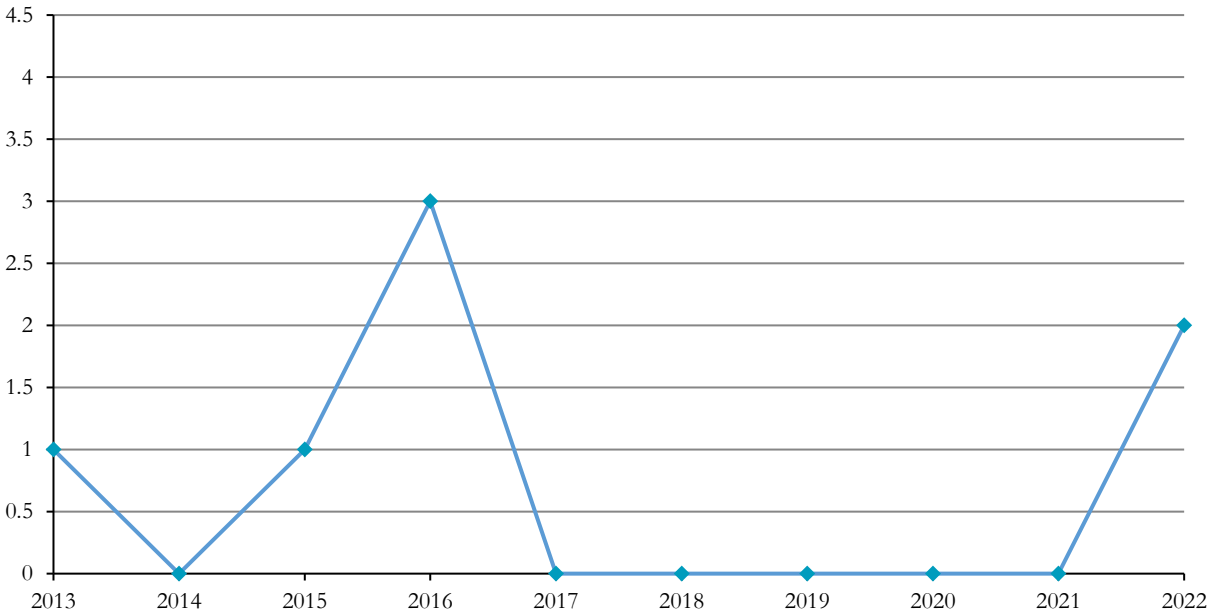
College of Fine Arts & Communications

Summary by Departments

Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards*	Dollars Awarded*
Art	0	0	0	\$0
Communications	1	1	1	\$20,000
Dance	0	0	0	\$0
Design	0	0	0	\$0
School of Music	0	0	0	\$0
Theatre & Media Arts	1	1	1	\$6,600
TOTALS	2	2	2	\$26,600

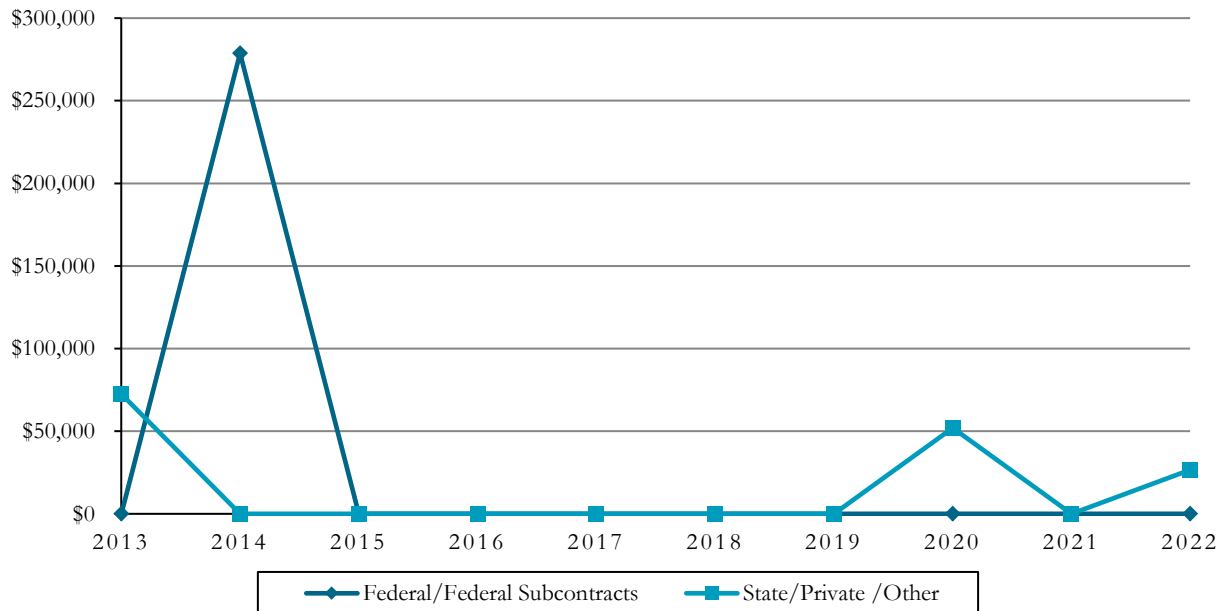
*Number of Awards are counted by PI only, while total Dollars Awarded is split between all researchers

Proposal Submissions



Awards by Sources

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private /Other	
2013	\$0	\$72,500	\$72,500
2014	\$278,688	\$0	\$278,688
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



College of Fine Arts & Communications 2022 Awards

<u>Researcher</u>	<u>Role</u>	<u>Sponsor</u>	<u>Prime Sponsor</u>	<u>Title</u>	<u>Beg Date</u>	<u>End Date</u>	<u>Account</u>	<u>Amount</u>
<i>Communications</i>								
Sheets, Jeff	PI	Utah Department of Commerce		Scams and Fraud Prevention	Jun-22	May-23	R0402387	\$20,000
<i>Theatre & Media Arts</i>								
Stapley, Kyle	PI	Utah Film Commission - Utah Office of Tourism and Film		Utah Film Commission/BYU Internship	May-22	Aug-22	R0402384	\$6,600



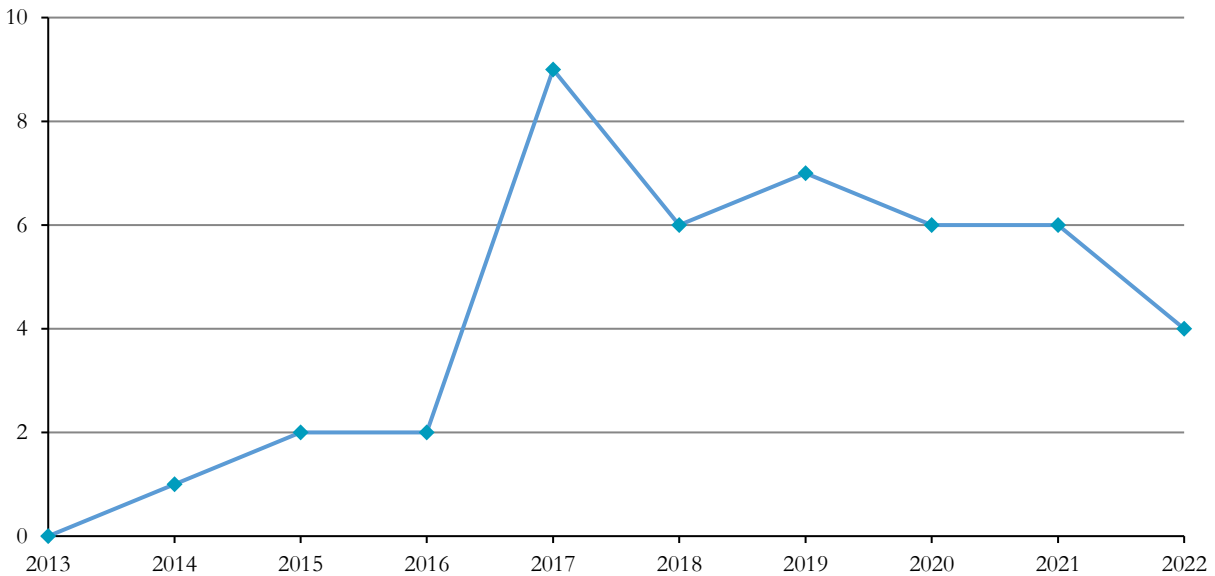
College of Humanities

Summary by Departments

Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards*	Dollars Awarded*
Asian & Near Eastern Languages	2	2	4	\$827,792
Comparative Arts & Letters	1	1	4	\$369,996
English	0	0	0	\$0
French & Italian	0	0	0	\$0
German & Russian	0	0	0	\$0
Linguistics & English Language	1	1	0	\$0
Philosophy	0	0	0	\$0
Spanish & Portuguese	0	0	0	\$0
TOTALS	4	4	8	\$1,197,788

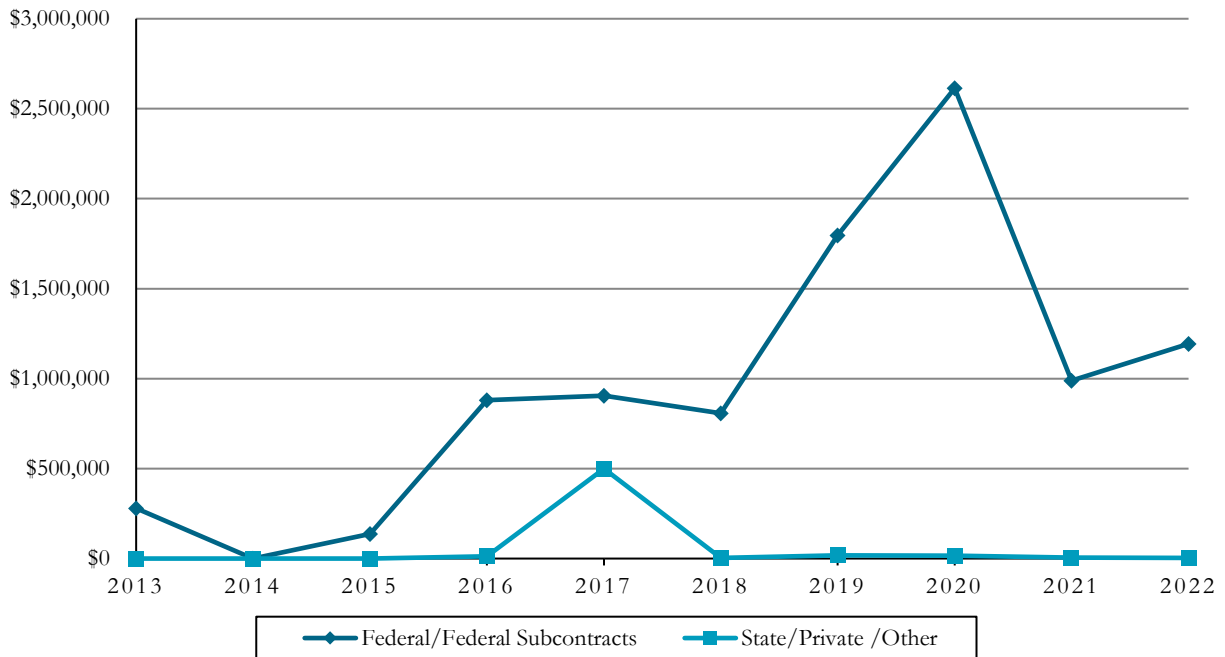
*Number of Awards are counted by PI only, while total Dollars Awarded is split between all researchers

Proposal Submissions



Awards by Sources

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private /Other	
2013	\$278,688	\$0	\$278,688
2014	\$0	\$0	\$0
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	\$811,501
2019	\$1,795,832	\$18,000	\$1,813,832
2020	\$2,613,986	\$15,453	\$2,629,438
2021	\$939,268	\$5,372	\$944,640
2022	\$1,193,837	\$3,951	\$1,197,788



College of Humanities

2022 Awards

<u>Researcher</u>	<u>Role</u>	<u>Sponsor</u>	<u>Prime Sponsor</u>	<u>Title</u>	<u>Beg Date</u>	<u>End Date</u>	<u>Account</u>	<u>Amount</u>
<i>Asian and Near Eastern Languages</i>								
Belnap, Kirk	PI	Institute of International Education	Department of Defense	Arabic Flagship Center Student Support 22-23	Mar-22	Feb-23	R0303057	\$85,900
Belnap, Kirk	PI	Institute of International Education	National Security Education Program	Arabic Flagship Center-Domestic FY 22-23	Jun-22	Mar-23	R0303072	\$324,897
Christensen, Matthew	PI	Institute of International Education	Department of Defense	Chinese Flagship Center Student Support 2022-2023	Mar-22	Feb-23	R0303058	\$92,000
Christensen, Matthew	PI	Institute of International Education	National Security Education Program	Chinese Flagship Center-Domestic FY 21-22	Jun-22	Mar-23	R0303073	\$324,995
<i>Comparative Arts & Letters</i>								
Kramer, Nate	PI	Finnish National Agency for Education		Support for the Teaching of Finnish Language and Culture	Jan-22	Dec-23	R0570036	\$2,023
Kramer, Nate	PI	Finnish National Agency for Education		Support for the Teaching of Finnish Language and Culture	Jan-22	Dec-23	R0570036	\$1,928
Yamada, Marc	PI	University of Utah	Department of Education	Intermountain Consortium for Asian and Pacific Studies Undergraduate FLAS Program 2022	Aug-22	Aug-23	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-23	R0303112	\$108,300



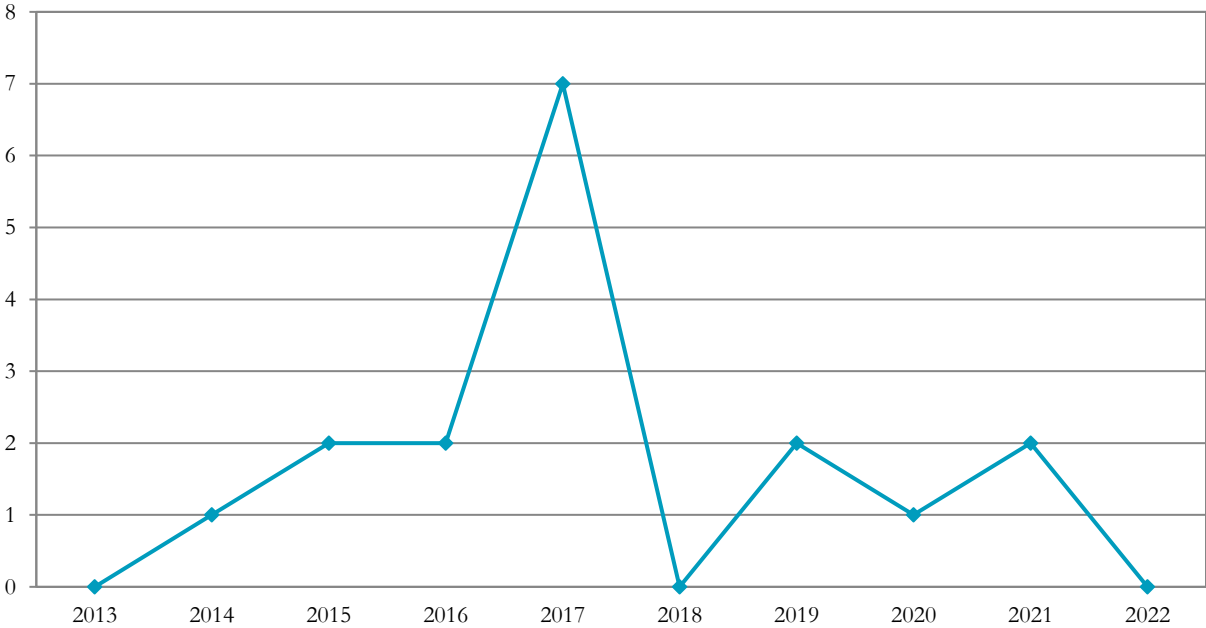
J. Reuben Clark Law School

Summary by Departments

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

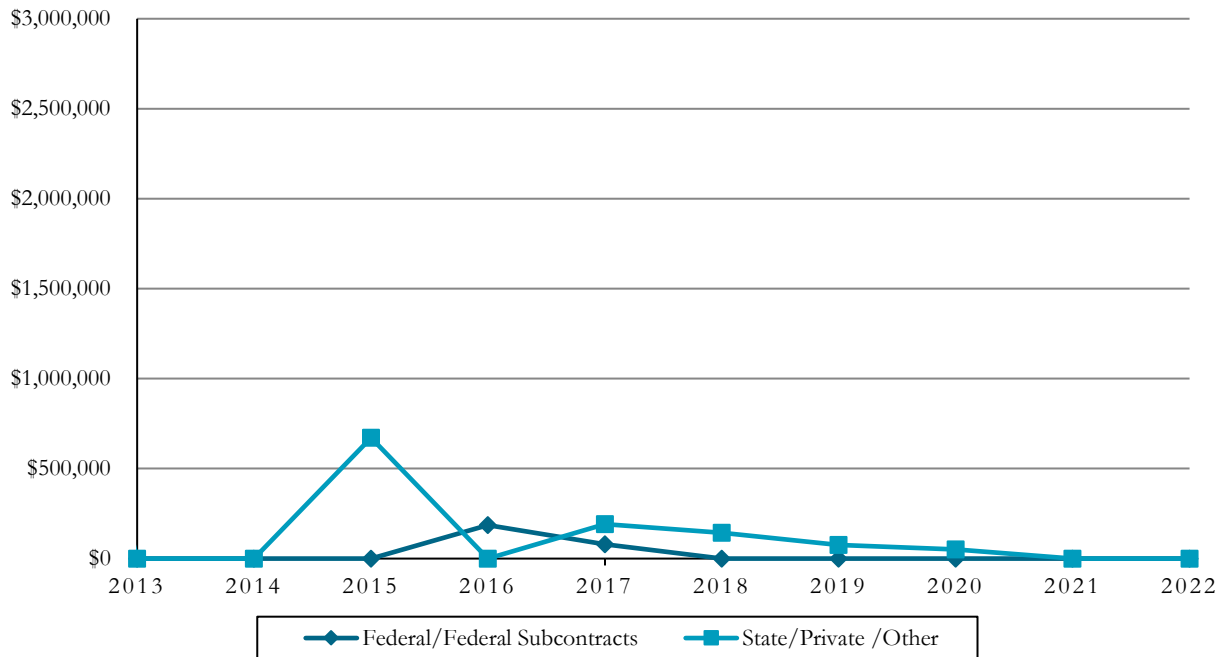
*Number of Awards are counted by PI only, while total Dollars Awarded is split between all researchers

Proposal Submissions



Awards by Sources

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
2013	\$0	\$0	\$0
2014	\$0	\$0	\$0
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





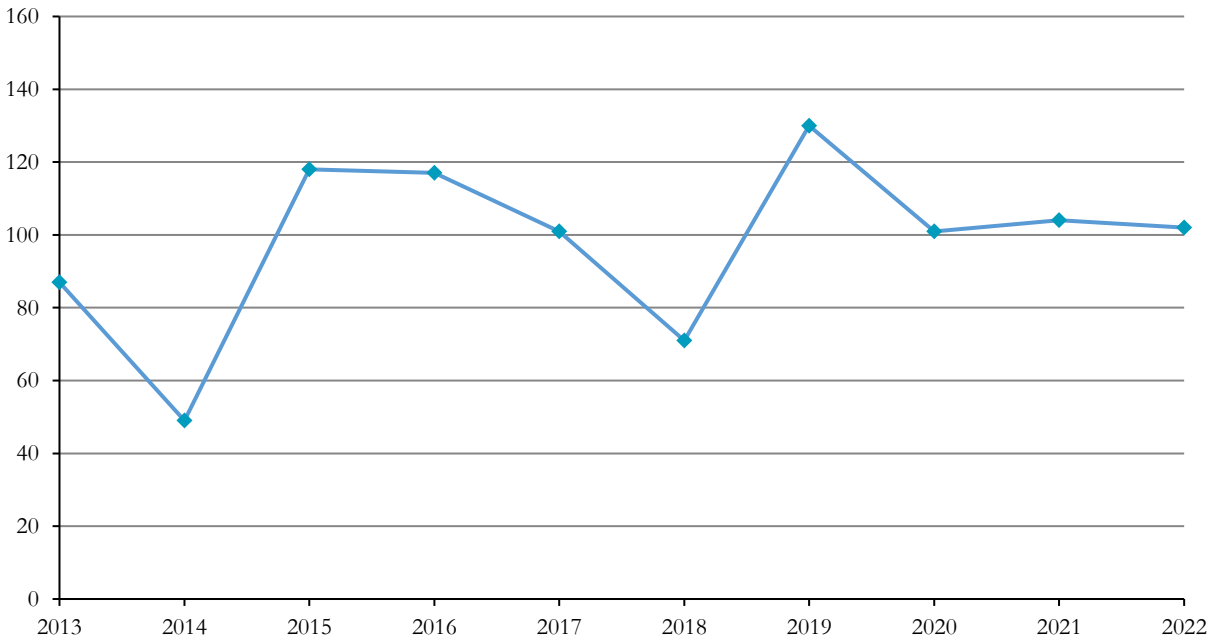
College of Life Sciences

Summary by Departments

Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards*	Dollars Awarded*
Monte L. Bean Life Science Museum	1	2	4	\$94,000
Biology	10	18	7	\$1,164,532
Cell Biology & Physiology	10	20	5	\$843,633
Exercise Science	3	6	4	\$279,897
Microbiology & Molecular Biology	7	12	10	\$1,128,602
Nutrition, Dietetics & Food Science	9	14	12	\$532,280
Plant & Wildlife Sciences	13	20	27	\$3,505,775
Public Health	5	10	5	\$303,294
TOTALS	58	102	74	\$7,852,013

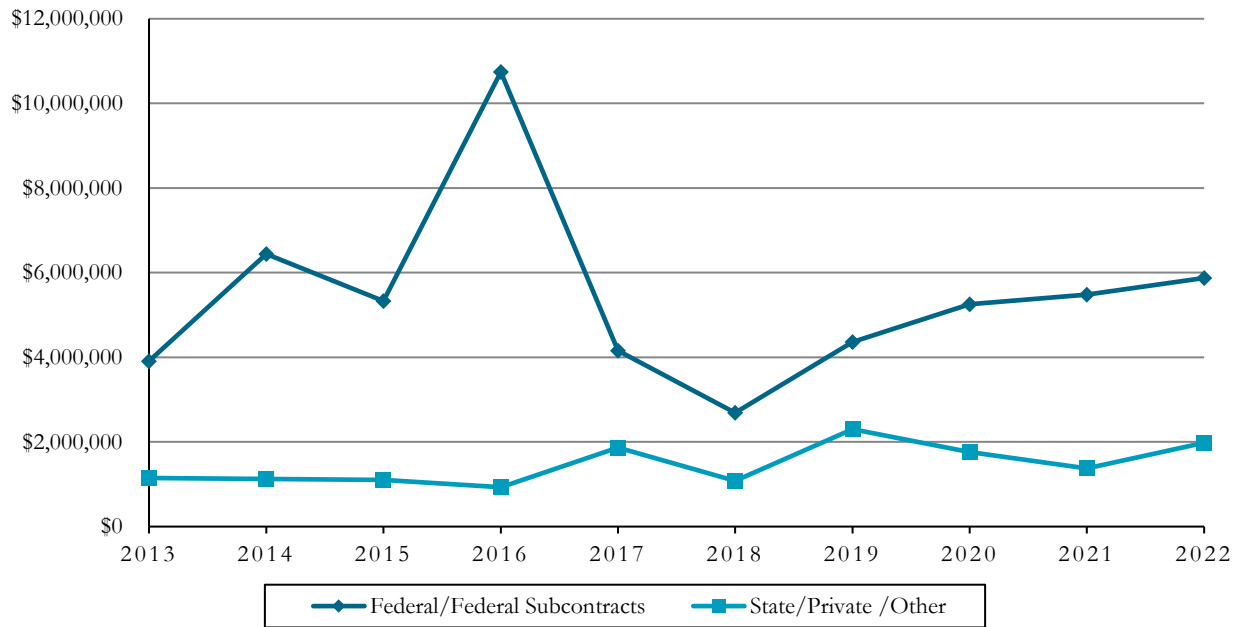
*Number of Awards are counted by PI only, while total Dollars Awarded is split between all researchers

Proposal Submissions



Awards by Sources

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private /Other	
2013	\$3,905,977	\$1,151,388	\$4,988,584
2014	\$6,442,140	\$1,125,358	\$7,567,498
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



College of Life Sciences

2022 Awards

<u>Researcher</u>	<u>Role</u>	<u>Sponsor</u>	<u>Prime Sponsor</u>	<u>Title</u>	<u>Beg Date</u>	<u>End Date</u>	<u>Account</u>	<u>Amount</u>
Biology								
Adams, Byron	PI	University of Colorado, Boulder	National Science Foundation	LTER: Ecosystem response to amplified landscape connectivity in the McMurdo Dry Valleys, Antarctica	Jun-17	May-23	R0302755	\$37,965
Adams, Byron	PI	National Science Foundation		Integrating genomic and phenotypic analyses to understand microbial life in Antarctic soils	Apr-22	Mar-25	R0112480	\$100,906
Adams, Byron	PI	National Science Foundation		Integrating genomic and phenotypic analyses to understand microbial life in Antarctic soils	Apr-22	Mar-25	R0112481	\$1,750
Adams, Byron	PI	National Science Foundation		Integrating genomic and phenotypic analyses to understand microbial life in Antarctic soils	Apr-22	Mar-25	R0112480	\$20,531
Bailey, Liz	PI	National Science Foundation		Graduate Research Fellowship Program	Jun-20	May-23	R0112436	\$92,000
Kauwe, Keoni	COI	Washington State University	National Institutes of Health	Natives Engaged in Alzheimer's Research	Aug-21	Apr-23	R0303014	\$192,259
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	Jun-23	R0202576	\$59,333
Payne, Samuel	COI	National Institutes of Health		Biochemical Consequences of Regiospecific Metabolic Bias in the Brain	May-20	Feb-23	R0102103	\$131,593
Payne, Samuel	COI	National Institutes of Health		Fully Automated and Ultra-high Throughput Platform for In-depth Single Cell Proteomics	Sep-20	Aug-23	R0102106	\$165,263
Payne, Samuel	COI	National Institutes of Health		Biochemical Consequences of Regiospecific Metabolic Bias in the Brain	May-20	Feb-23	R0102103	\$14,622
Payne, Samuel	PI	National Institutes of Health		Enhanced Sensitivity and Quantitative Precision for Single Cell Proteomics	Sep-22	May-23	R0102125	\$156,054
Ridge, Perry	PI	Washington State University	National Institutes of Health	Natives Engaged in Alzheimer's Research	Aug-21	Apr-23	R0303014	\$192,259

Cell Biology & Physiology

Arroyo, Juan	PI	National Institutes of Health		Lung and placenta RAGE signaling induction by Second Hand Smoke and e-Cigarette vapor	Jul-22	Jun-25	RO102119	\$227,250
Hansen, Jason	PI	University of Pittsburgh	National Institutes of Health	Mechanism of Telomere-Mediated Lung Disease	Jul-20	Jun-22	RO302816	\$46,627
Hansen, Jason	PI	University of Massachusetts Amherst	National Institutes of Health	Activation of Nrf2 during embryonic development: mechanisms and consequences	Mar-22	Dec-22	RO303064	\$28,773
Hansen, Jason	PI	Snow Canyon Therapeutics, Inc.		Assessment of wogonin products in vivo	Nov-22	Nov-23	RO602698	\$26,210
Hill, Jonathon	COI	Renew Diagnostics, LLC		Novel diagnostic and research sequencing approaches utilizing Nanopore	Jul-22	Jun-26	RO602694	\$114,332
Jenkins, Timothy	PI	Renew Diagnostics, LLC		Novel diagnostic and research sequencing approaches utilizing Nanopore	Jul-22	Jun-26	RO602694	\$114,332
Reynolds, Paul	COI	National Institutes of Health		Lung and placenta RAGE signaling induction by Second Hand Smoke and e-Cigarette vapor	Jul-22	Jun-25	RO102119	\$227,250
Reynolds, Paul	COI	University of Utah	Centers for Disease Control and Prevention	Spatiotemporal and personal monitoring of Nepali brick workers' aerosol exposures	Jul-22	Jun-23	RO303111	\$4,860
Yorgason, Jordan	COI	Noorda College of Osteopathic Medicine		Collaborative research between NCOM and BYU: Mechanisms Underlying the Development and Treatment of Substance-Use Disorder	Jun-22	May-25	RO802050	\$54,000

Exercise Science

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-23	RO602671	\$33,150
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-23	RO602671	\$23,604
Hopkins, Ty	PI	National Athletic Trainers Association Research and Education Foundation		Effects of neuromuscular training with external visual feedback on movement patterns in individuals with chronic ankle instability	Jun-22	Jun-23	RO502370	\$1,000
Hopkins, Ty	PI	National Athletic Trainers Association Research and Education Foundation		Effects of pain in static and dynamic postural control between chronic ankle instability with and without pain	Jun-22	Jun-23	RO502371	\$1,000
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-23	RO602671	\$34,155

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-23	RO602671	\$24,320
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	Oct-21	Sep-23	RO303038	\$322
Mitchell, Ulrike	COI	University of North Carolina - Chapel Hill	National Institutes of Health	BEST Trial Deep Phenotyping Using the SPINE Sense System	Oct-21	Sep-23	RO303038	\$3,471
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	Oct-21	Sep-23	RO303038	\$5,504
Mitchell, Ulrike	COI	University of North Carolina - Chapel Hill	National Institutes of Health	Collaborative utilization and assessment of biomechanics technologies within the BACPAC consortium	Aug-22	Jul-23	RO303122	\$39,255
Mitchell, Ulrike	COI	University of North Carolina - Chapel Hill	National Institutes of Health	Expanding BACPAC Capacity: phenotyping non-LBP controls for BACPAC consortium research	Aug-22	Jul-23	RO303123	\$57,361
Ridge, Sarah	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-23	RO602671	\$33,150
Ridge, Sarah	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-23	RO602671	\$23,604

Microbiology & Molecular Biology

Berges, Brad	PI	Ross Southern Labs		Production of large-scale viral antigens	Mar-22	Feb-23	RO602682	\$93,820
Davis, Mary	COI	National Institutes of Health		Investigating the partitioning of glucose to lipids versus respiration, an undergraduate-based approach to dissect a pivotal point of metabolic control	Sep-20	Aug-23	RO102123	\$56,813
Erickson, David	PI	National Institutes of Health		Investigating virulence functions of mastitis-associated Extraintestinal pathogenic Escherichia coli relevant to human disease	Jan-22	Dec-24	RO102115	\$378,750
Evans, R Paul	PI	National Park Service	Department of Interior	West Desert Bonneville Cutthroat Trout Populations - Genetics and Origins	Jul-22	Dec-23	RO202578	\$79,049
Evans, R Paul	PI	Utah Division of Wildlife Resources	Utah Reclamation Mitigation and Conservation Commission	Molecular Analysis of Cutthroat Trout Hybridization and Population Genetics in Utah	Nov-22	Nov-27	RO303124	\$126,000
Griffitts, Joel	COI	Western Dairy Center	Utah State University	BIOCONVERSION OF DAIRY LACTOSE TO RARE SUGARS	Jul-20	Jul-23	RO502334	\$16,895

Griffitts, Joel	COI	Western Dairy Center	Utah State University	BIOCONVERSION OF DAIRY LACTOSE TO RARE SUGARS	Jul-20	Jul-23	R0502334	\$563
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-22	R0570035	\$70,000
Grose, Julianne	PI	National Institutes of Health		Investigating the partitioning of glucose to lipids versus respiration, an undergraduate-based approach to dissect a pivotal point of metabolic control	Sep-20	Aug-23	R0102123	\$56,813
Poole, Brian	PI	Utah Department of Health & Human Services		NE22-61. HPV Vaccination Belief Assessment and Intervention Plan	Mar-22	Jun-22	R0402383	\$30,000
Robison, Richard	PI	doTERRA International, LLC		The Antiviral Effects of Essential Oils on Human Papillomavirus (HPV)	Jul-22	Jul-23	R0602686	\$15,000
Robison, Richard	PI	Bruce Lindorf Memorial Foundation		Microbial Pathogens Involved in Tick-borne Diseases	Jan-21	Dec-23	R0502320	\$60,420
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-23	R0302905	\$144,480

Monte Bean Life Science Museum

Whiting, Michael	PI	Utah Division of Arts and Museums		General Operating Support for the Bean Life Science Museum at BYU	Jul-21	Jun-22	R0402381	\$11,000
Whiting, Michael	PI	Utah Division of Arts and Museums		General Operating Support for the Bean Life Science Museum at BYU	Jul-21	Jun-22	R0402381	\$24,000
Whiting, Michael	PI	Utah Division of Arts and Museums		General Operating Support for the Bean Life Science Museum at BYU	Jul-22	Jun-23	R0402388	\$35,000
Whiting, Michael	PI	Center for the Involvement of Teacher Education and Schooling		Education Partnership-Bean Museum	Jan-11	May-23	R0502113	\$24,000

Nutrition, Dietetics, & Food Science

Ahlborn, Gene	PI	Western Dairy Center		Development and Evaluation of Parmesan and Feta Cheese Flavor Profiles with Microbial and Plant Lipases.	Aug-22	Aug-24	R0502377	\$28,466
Jefferies, Laura	PI	Western Dairy Center		Predicting protein bar stability over time using differential scanning calorimetry and related sensory testing	Jan-22	Dec-23	R0502362	\$57,020
Jefferies, Laura	PI	Western Dairy Center		Potential Clean Label Astringency Maskers for Acidic Whey Protein Beverages	Jan-22	Dec-23	R0502363	\$64,881

Jefferies, Laura	PI	Western Dairy Center		Effect of Dairy Milk Packaging Design and Messaging and Consumer Willingness to Purchase	Feb-22	Feb-23	RO502361	\$17,500
Kenealey, Jason	PI	Western Dairy Center		Elucidating the chemopreventative mechanism of glycomacropptide	Apr-22	Apr-24	RO502364	\$76,600
LeCheminant, James	COI	Utah State University	Utah Department of Workforce Services	Utah County Homeless Health and Wellness Program	Jun-19	May-23	RO402339	\$796
LeCheminant, James	COI	University of Utah	Centers for Disease Control and Prevention	Spatiotemporal and personal monitoring of Nepali brick workers' aerosol exposures	Jul-22	Jun-23	RO303111	\$4,860
Pike, Oscar	PI	Welfare Services, The Church of Jesus Christ of Latter-day Saints		BYU Quality Assurance Laboratory	Jan-91	Dec-23	RO700031	\$55,000
Pike, Oscar	PI	Welfare Services, The Church of Jesus Christ of Latter-day Saints		BYU Quality Assurance Laboratory	Jan-91	Dec-23	RO700031	\$55,000
Richards, Rickelle	PI	Utah State University	Utah Department of Workforce Services	Utah County Homeless Health and Wellness Program	Jun-19	May-23	RO402339	\$796
Steele, Frost	PI	Deseret Meats - The Church of Jesus Christ of Latter-day Saints		Pathogen Analysis for Meat Products Produced at Deseret Meats & Houston Peanut Butter	Jan-21	Dec-22	RO702001	\$70,570
Taylor, Brad	PI	Western Dairy Center	Utah State University	BIOCONVERSION OF DAIRY LACTOSE TO RARE SUGARS	Jul-20	Jul-23	RO502334	\$16,895
Taylor, Brad	PI	Western Dairy Center	Utah State University	BIOCONVERSION OF DAIRY LACTOSE TO RARE SUGARS	Jul-20	Jul-23	RO502334	\$563
Tessem, Jeff	PI	North Carolina State University	Department of Agriculture	Bioavailable gut microbial metabolites potentiate the beta-cell stimulatory and anti-obesity activities of poorly-bioavailable cocoa flavanols	Apr-21	Mar-23	RO302903	\$83,334
<i>Plant & Wildlife Sciences</i>								
Aanderud, Zach	COI	Aqua Environmental Services		Thermophilic bacterial pretreatment of lignocellulosic and wet waste for increased biogas production	Nov-19	Jun-23	RO602622	\$9,979
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	RO112444	\$69,231
Aanderud, Zach	PI	Utah State University	National Science Foundation	Dust as an ecosystem driver: determining the ecosystem consequences of cross-system subsidies of nutrients and microorganisms in dusts	Jul-22	Nov-22	RO303078	\$17,135
Abbott, Ben	PI	National Science Foundation		Collaborative Research: Network Cluster: Using Big Data approaches to assess ecohydrological resilience across scales	Sep-21	Aug-23	RO112445	\$57,548

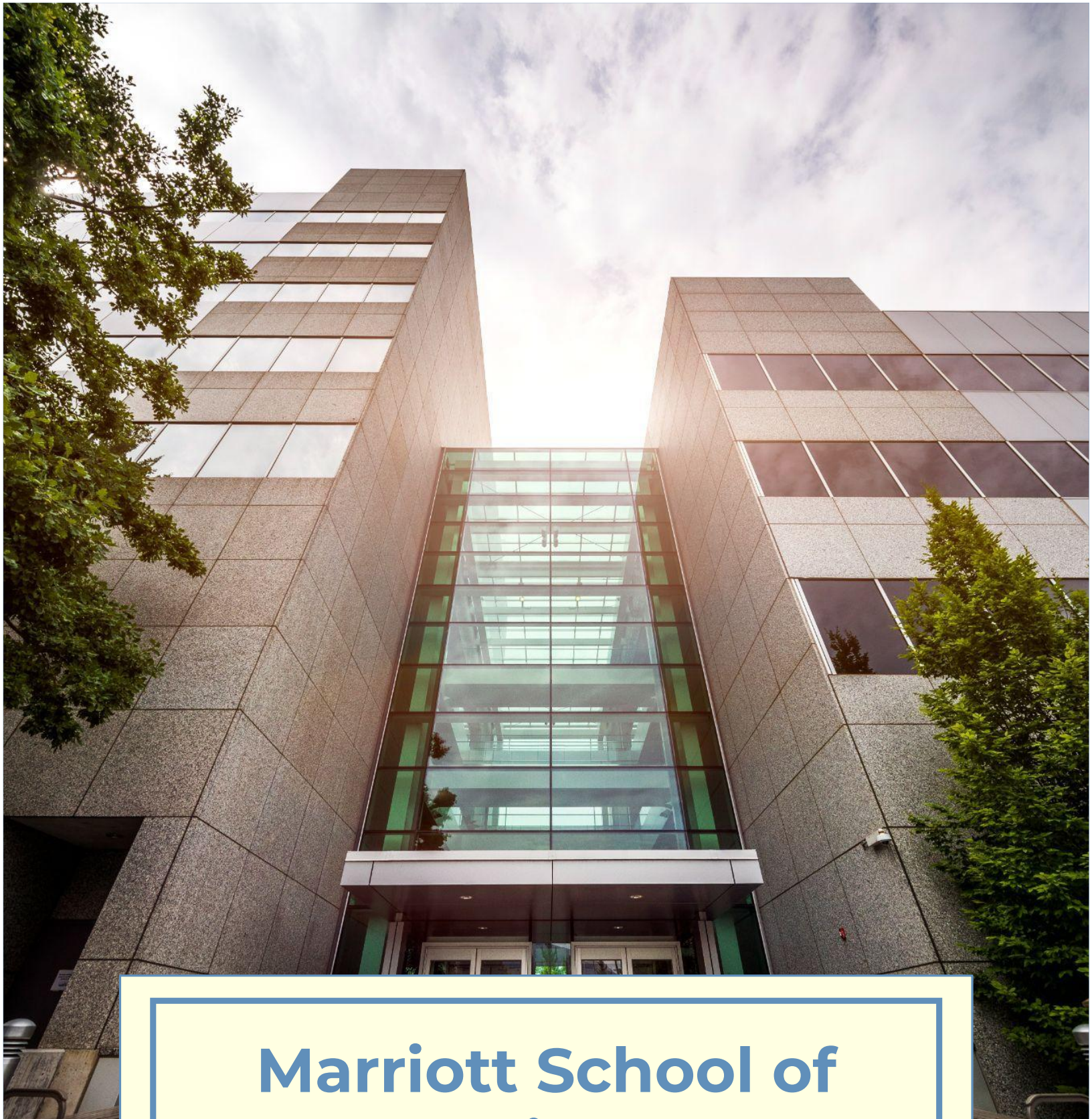
Anderson, Val	COI	Rio Tinto Kennecott		Improving Vegetation Establishment on Kennecott Mine Waste Rock Dumps and Tailings	Jun-20	Dec-22	R0602635	\$44,756
Anderson, Val	COI	US Fish and Wildlife Service	Department of Interior	Natural Resources Support for Natural Resources Program, UTTR, Utah and Nevada	Sep-19	Sep-23	R0202533	\$26,021
Anderson, Val	COI	Rio Tinto Kennecott		Improving Vegetation Establishment on Kennecott Mine Waste Rock Dumps and Tailings	Jun-20	Dec-22	R0602635	\$4,000
Chaston, John	PI	California State University, Fullerton	National Institutes of Health	The microbiota's response to and influence on the evolution of <i>Drosophila melanogaster</i>	Jul-22	Jun-25	R0303131	\$60,000
Flinders, Loreen Allphin	PI	Utah Division of Wildlife Resources		Monitoring of rare plant populations and ungulate use, particularly mountain goats, in alpine plant communities of the La Sal Mountains and one year of additional research in Tushar Mountains, Utah.	Jul-22	Jun-26	R0303071	\$270,298
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	Jun-23	R0202576	\$59,333
Frandsen, Paul	PI	National Science Foundation		IntBIO: Silk Protein Innovation and Novelty (SPIN): Threading connections among silk evolution, development, and gene function	Aug-22	Jul-27	R0112498	\$1,096,269
Frandsen, Paul	PI	National Science Foundation		IntBIO: Silk Protein Innovation and Novelty (SPIN): Threading connections among silk evolution, development, and gene function - Participant Support Costs	Aug-22	Jul-27	R0112499	\$10,580
Geary, Bradley	COI	Rio Tinto Kennecott		Improving Vegetation Establishment on Kennecott Mine Waste Rock Dumps and Tailings	Jun-20	Dec-22	R0602635	\$44,756
Geary, Bradley	COI	Rio Tinto Kennecott		Improving Vegetation Establishment on Kennecott Mine Waste Rock Dumps and Tailings	Jun-20	Dec-22	R0602635	\$4,000
Hansen, Neil	PI	Utah State University	4R Research Fund	Stacking and Intersecting Nutrient and Irrigation 4R's	Jan-21	Dec-22	R0502317	\$9,338
Hopkins, Bryan	PI	Soil Science Society of America		SSSA NAPT Contract	Jan-22	Dec-23	R0502358	\$100,000
Hopkins, Bryan	COI	Utah State University	4R Research Fund	Stacking and Intersecting Nutrient and Irrigation 4R's	Jan-21	Dec-22	R0502317	\$9,338
Hopkins, Bryan	COI	US Fish and Wildlife Service	Department of Interior	Natural Resources Support for Natural Resources Program, UTTR, Utah and Nevada	Sep-19	Sep-23	R0202533	\$26,021
Hopkins, Bryan	PI	US Geological Survey	Department of Interior	USGS - Soil Analysis	Sep-20	Mar-23	R0202546	\$19,309
Jarvis, David	PI	King Abdullah University of Science and Technology		Uncovering the wild genetic diversity in <i>Chenopodium</i> spp. for improvement of heat stress tolerance in quinoa	Apr-22	Mar-25	R0570037	\$20,114
Jarvis, David	COI	Department of Agriculture		Avena Pangenome	Aug-20	Jul-24	R0152019	\$25,101
Jellen, Eric	COI	King Abdullah University of Science and Technology		Uncovering the wild genetic diversity in <i>Chenopodium</i> spp. for improvement of heat stress tolerance in quinoa	Apr-22	Mar-25	R0570037	\$19,523

Jellen, Eric	PI	Department of Agriculture		Avena Pangenome	Aug-20	Jul-24	R0152019	\$25,862
Larsen, Randy	PI	Utah Reclamation Mitigation and Conservation Commission		Monitoring Bird Abundance and Movement for Provo River Detal Restoration Project	Feb-22	Jan-27	R0202567	\$30,000
Larsen, Randy	COI	Utah Division of Wildlife Resources	US Fish and Wildlife Service	Monitoring deer in Utah: Implications of managing populations near K.	Jun-22	Jun-24	R0303068	\$64,053
Larsen, Randy	PI	Colorado State University	Department of Defense	Technician Support for the US Army Dugway Proving Ground-- Summer 2021	May-22	Dec-22	R0303069	\$31,224
Larsen, Randy	PI	Utah Reclamation Mitigation and Conservation Commission	Department of Interior	Study of Sage-grouse in Strawberry Valley	Jul-21	Jun-24	R0202518	\$60,000
Larsen, Randy	COI	US Fish and Wildlife Service	Department of Interior	Natural Resources Support for Natural Resources Program, UTTR, Utah and Nevada	Sep-19	Sep-23	R0202533	\$26,021
Larsen, Randy	PI	State of Hawaii Department of Land and Natural Resources		Abundance Estimate of Feral Ungulates for Hawaii's Department of Land and Natural Resources Division of Forestry and Wildlife	Feb-22	Feb-23	R0470019	\$4,857
Larsen, Randy	PI	Utah Division of Wildlife Resources	US Fish and Wildlife Service	Survival and cause-specific mortality of adult and juvenile mule deer in Utah	Aug-22	Jul-27	R0303099	\$248,195
Larsen, Randy	PI	Utah Division of Wildlife Resources	US Fish and Wildlife Service	Identifying the Relative Influence of Top-Down (Predation) versus Bottom-Up (Nutritional Condition) on Productivity of Elk and Mule Deer on the Nebo Management Unit	Oct-22	Jun-26	R0303126	\$91,073
Larsen, Randy	COI	Utah Division of Wildlife Resources	US Fish and Wildlife Service	Neonate Deer Survival on the La Sal Mountains	Oct-22	Jun-25	R0303127	\$59,212
Larsen, Randy	COI	Utah Division of Wildlife Resources	US Fish and Wildlife Service	Deer Response to Habitat Treatment on Summer Range on the Nine Mile Management Unit	Oct-22	Jun-25	R0303128	\$59,212
Madsen, Matthew	PI	Rio Tinto Kennecott		Improving Vegetation Establishment on Kennecott Mine Waste Rock Dumps and Tailings	Jun-20	Dec-22	R0602635	\$44,756
Madsen, Matthew	COI	US Fish and Wildlife Service	Department of Interior	Natural Resources Support for Natural Resources Program, UTTR, Utah and Nevada	Sep-19	Sep-23	R0202533	\$26,021
Madsen, Matthew	PI	Rio Tinto Kennecott		Improving Vegetation Establishment on Kennecott Mine Waste Rock Dumps and Tailings	Jun-20	Dec-22	R0602635	\$4,000
Maughan, Jeff	PI	Department of Agriculture		Sequencing and assembly of cereal wild relatives genomes	Apr-22	Apr-23	R0152023	\$40,000
Maughan, Jeff	COI	King Abdullah University of Science and Technology		Uncovering the wild genetic diversity in Chenopodium spp. for improvement of heat stress tolerance in quinoa	Apr-22	Mar-25	R0570037	\$19,523
Maughan, Jeff	COI	Department of Agriculture		Avena Pangenome	Aug-20	Jul-24	R0152019	\$25,101
McMillan, Brock	PI	Utah Division of Wildlife Resources	US Fish and Wildlife Service	Monitoring deer in Utah: Implications of managing populations near K.	Jun-22	Jun-24	R0303068	\$64,053

McMillan, Brock	COI	Utah Division of Wildlife Resources	US Fish and Wildlife Service	Survival and cause-specific mortality of adult and juvenile mule deer in Utah	Aug-22	Jul-27	Ro303099	\$248,195
McMillan, Brock	COI	Utah Division of Wildlife Resources	US Fish and Wildlife Service	Identifying the Relative Influence of Top-Down (Predation) versus Bottom-Up (Nutritional Condition) on Productivity of Elk and Mule Deer on the Nebo Management Unit	Oct-22	Jun-26	Ro303126	\$91,073
McMillan, Brock	PI	Utah Division of Wildlife Resources	US Fish and Wildlife Service	Neonate Deer Survival on the La Sal Mountains	Oct-22	Jun-25	Ro303127	\$59,212
McMillan, Brock	PI	Utah Division of Wildlife Resources	US Fish and Wildlife Service	Deer Response to Habitat Treatment on Summer Range on the Nine Mile Management Unit	Oct-22	Jun-25	Ro303128	\$59,212
Petersen, Steven	COI	Rio Tinto Kennecott		Improving Vegetation Establishment on Kennecott Mine Waste Rock Dumps and Tailings	Jun-20	Dec-22	Ro602635	\$44,756
Petersen, Steven	PI	US Fish and Wildlife Service	Department of Interior	Natural Resources Support for Natural Resources Program, UTTR, Utah and Nevada	Sep-19	Sep-23	Ro202533	\$26,084
Petersen, Steven	COI	Rio Tinto Kennecott		Improving Vegetation Establishment on Kennecott Mine Waste Rock Dumps and Tailings	Jun-20	Dec-22	Ro602635	\$4,000
Smith, Tom	COI	US Fish and Wildlife Service	Department of Interior	Natural Resources Support for Natural Resources Program, UTTR, Utah and Nevada	Sep-19	Sep-23	Ro202533	\$26,021
St Clair, Sam	PI	USDA U.S. Forest Service	Department of Agriculture	Monroe Mountain Aspen Restoration Phase 3 Monitoring	Aug-20	May-25	Ro202543	\$19,914
Stewart, Ryan	PI	Frank & Evelyn Schmidt Family Foundation		Development of feasible protocols to propagate three uncommon, drought-resilient woody plant species	Aug-22	Dec-23	Ro502376	\$1,500

Public Health

Beard, John	COI	University of Utah	Centers for Disease Control and Prevention	Spatiotemporal and personal monitoring of Nepali brick workers' aerosol exposures	Jul-22	Jun-23	Ro303111	\$4,860
Glenn, Jeff	PI	Heterodox Academy	John Templeton Foundation	Navigating Diverse Perspectives Related to Social Identity and Belonging at Brigham Young University	Jan-22	Jul-22	Ro502359	\$17,500
Glenn, Jeff	PI	Heterodox Academy	John Templeton Foundation	Navigating Diverse Perspectives Related to Social Identity and Belonging at Brigham Young University	Jan-22	Jul-22	Ro502359	\$2,666
Johnston, Jim	PI	University of Utah	Centers for Disease Control and Prevention	Spatiotemporal and personal monitoring of Nepali brick workers' aerosol exposures	Jul-22	Jun-23	Ro303111	\$4,860
Merrill, Ray	COI	National Institutes of Health		Pathophysiology of Voice Disorders due to Combination Inhaled Corticosteroids in Asthma	May-21	Apr-23	Ro102086	\$183,038
Spruance, Lori	PI	Dairy West		Idaho Falls Data Collection	May-22	May-22	Ro502366	\$11,965
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-23	Ro303086	\$78,405



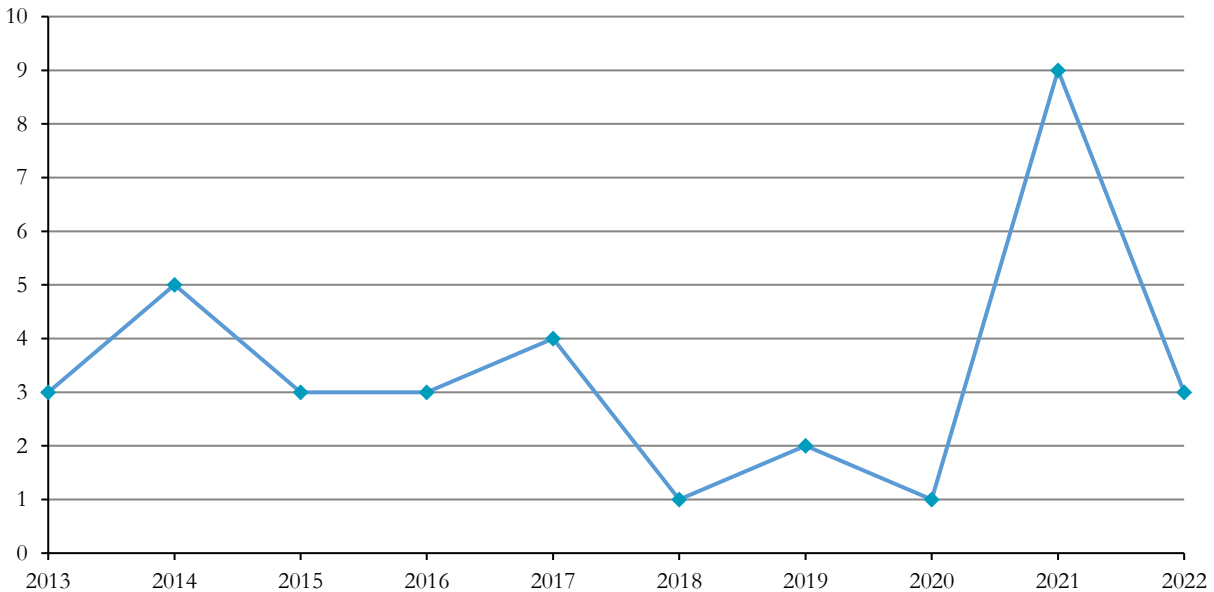
Marriott School of Business

Summary by Departments

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
Experience Design & Management	0	0	1	\$5,000
Finance & Managerial Economics	0	0	0	\$0
Global Management Center	0	0	1	\$290,466
Information Systems	0	0	4	\$149,736
Management	0	0	2	\$75,508
Marketing & Global Supply Chain	0	0	0	\$0
Romney Institute of Public Management	1	3	3	\$544,185
TOTALS	1	3	11	\$1,064,895

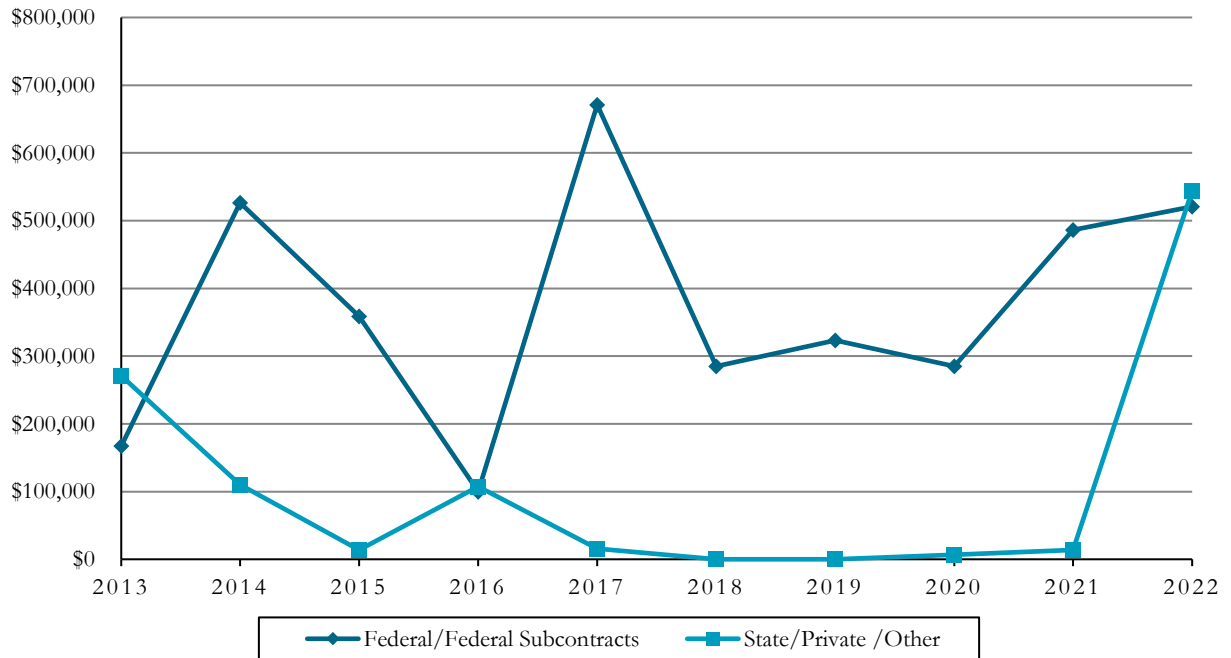
*Number of Awards are counted by PI only, while total Dollars Awarded is split between all researchers

Proposal Submissions



Awards by Sources

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private /Other	
2013	\$167,256	\$270,767	\$438,023
2014	\$526,276	\$110,000	\$636,276
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



Marriott School of Business

2022 Awards

<u>Researcher</u>	<u>Role</u>	<u>Sponsor</u>	<u>Prime Sponsor</u>	<u>Title</u>	<u>Beg Date</u>	<u>End Date</u>	<u>Account</u>	<u>Amount</u>
<i>Experience Design & Management</i>								
Duerden, Mat	PI	North Carolina State University	AmeriCorps	Mt. Adams Institute: VetsWork Evaluation Plan	Oct-21	Sep-23	R0303088	\$5,000
<i>Global Management Center</i>								
Money, Bruce	PI	Department of Education		Center for International Business Education FY2022-2026	Oct-21	Sep-23	R0132025	\$290,466
<i>Information Systems</i>								
Giboney, Justin	PI	National Security Agency		2023 BYU GenCyber Teacher Camp	Sep-22	Sep-24	R0202579	\$53,129
Giboney, Justin	PI	National Security Agency		2023 BYU Cybersecurity Youth Camp	Sep-22	Sep-24	R0202580	\$60,440
Giboney, Justin	PI	National Security Agency		2023 BYU GenCyber Teacher Camp	Sep-22	Sep-24	R0202581	\$21,608
Giboney, Justin	PI	National Security Agency		2023 BYU Cybersecurity Youth Camp	Sep-22	Sep-24	R0202582	\$14,559
<i>Management</i>								
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-23	R0303040	\$37,009
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-23	R0303040	\$38,499
<i>Romney Institute of Public Service & Ethics</i>								
Heist, Dan	PI	Philanthropy Roundtable		Donor-Advised Fund Sponsor Policies	May-22	Dec-22	R0502372	\$7,108
Heist, Dan	PI	Bill & Melinda Gates Foundation		Donor Advised Funds Research Collaborative National Study	Oct-22	Sep-23	R0502378	\$489,057
Owens, Brad	PI	Georgia State University	John Templeton Foundation	Exploring Interventions for the Development of Intellectual Humility in Leadership	Jul-22	Jun-23	R0502374	\$48,020



College of Nursing

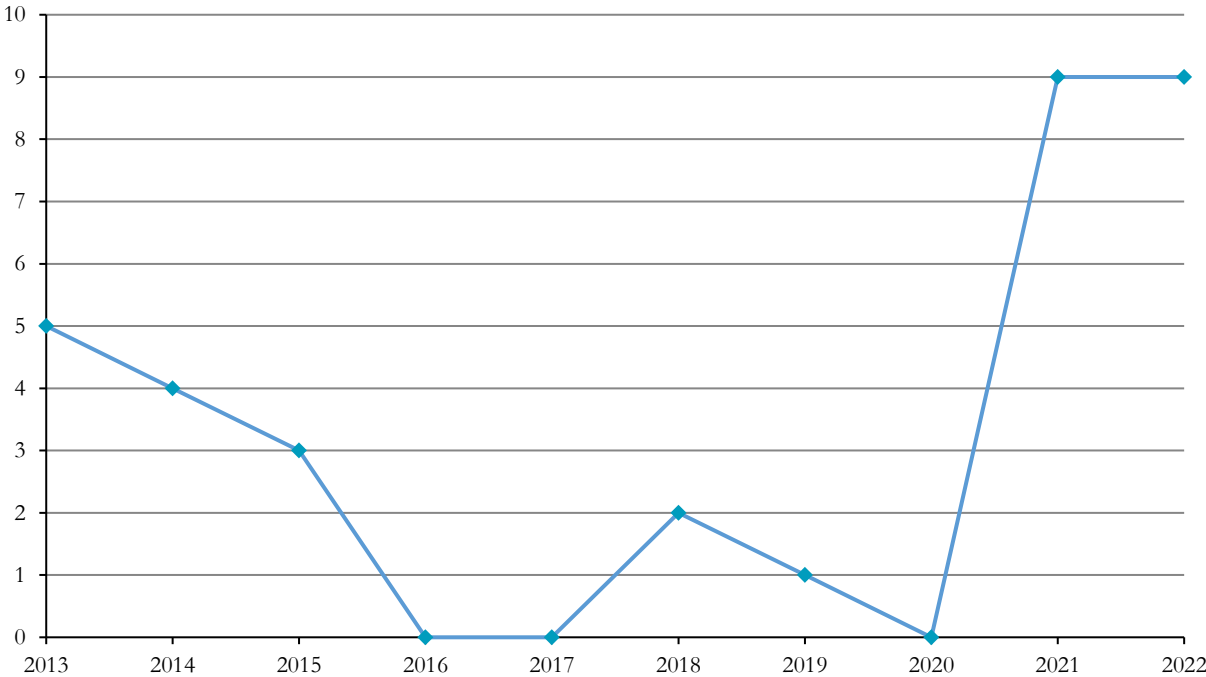
Spencer W. Kimball
Tower

Summary by Departments

Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards*	Dollars Awarded*
Nursing	5	9	0	\$0
TOTALS	5	9	0	\$0

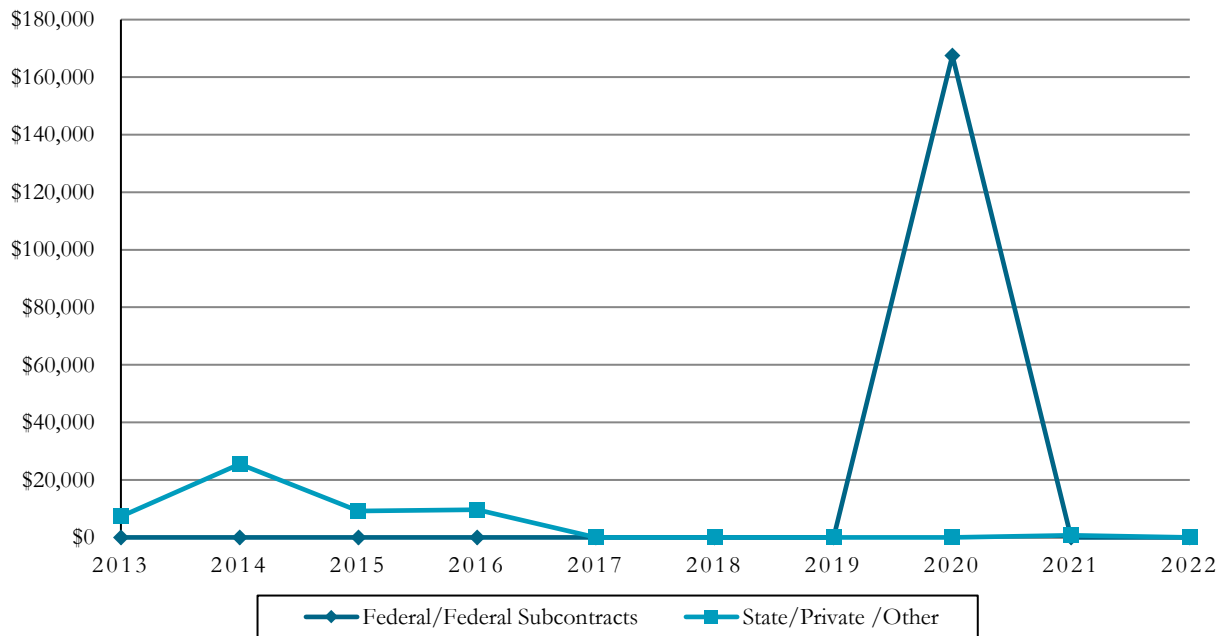
*Number of Awards are counted by PI only, while total Dollars Awarded is split between all researchers

Proposal Submissions



Awards by Sources

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private /Other	
2013	\$0	\$7,350	\$7,350
2014	\$0	\$25,500	\$25,500
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





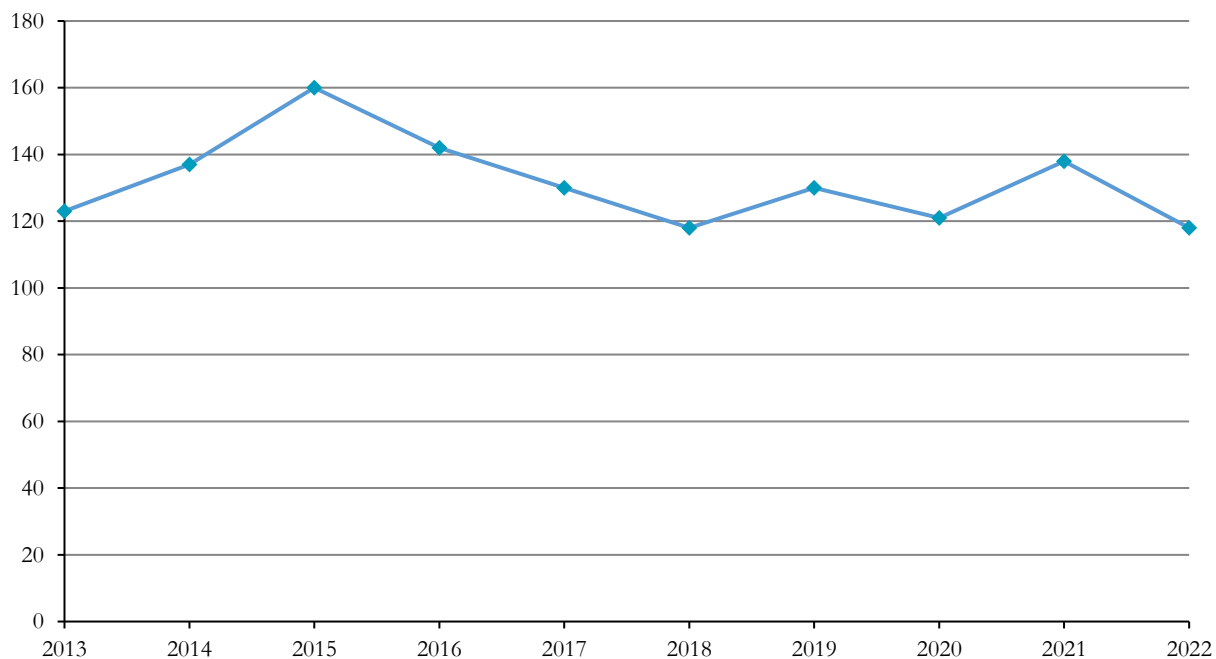
**College of Physical &
Mathematical Sciences**

Summary by Departments

Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards*	Dollars Awarded*
Chemistry	21	46	43	\$5,298,418
Computer Science	11	13	7	\$908,349
Geology	4	5	5	\$256,113
Mathematics	10	16	14	\$902,650
Mathematics Education	2	2	2	\$144,100
Physics & Astronomy	20	32	46	\$4,030,379
Statistics	3	4	1	\$24,000
TOTALS	71	118	118	\$11,564,009

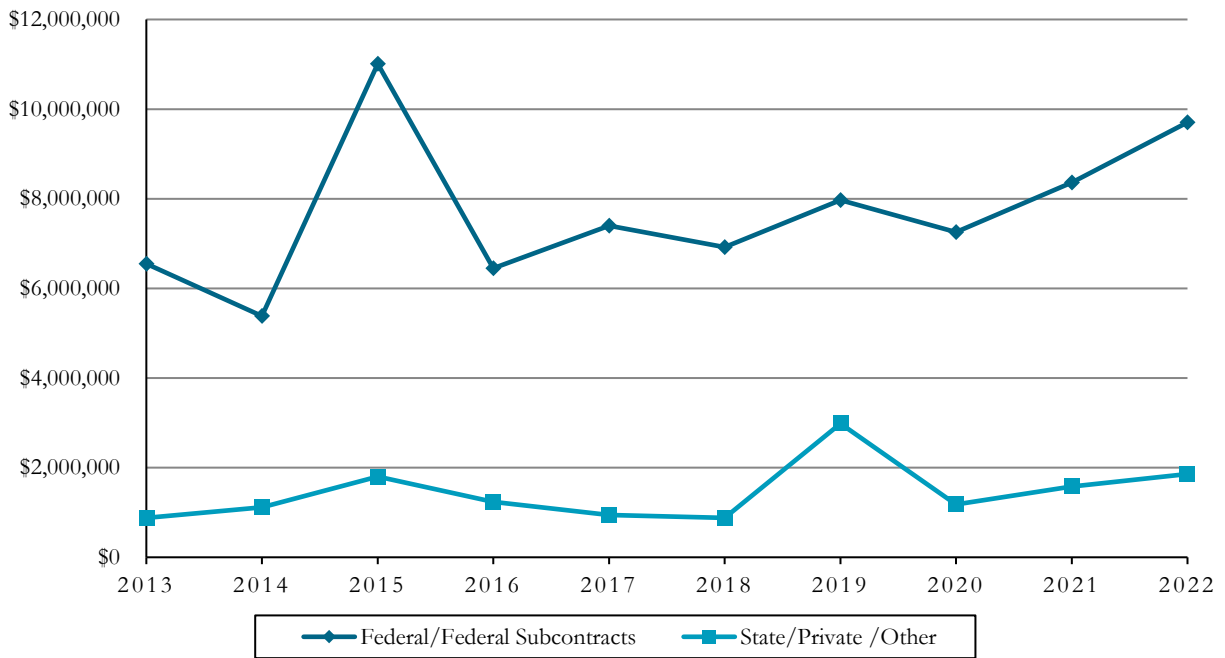
*Number of Awards are counted by PI only, while total Dollars Awarded is split between all researchers

Proposal Submissions



Awards by Sources

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private /Other	
2013	\$6,548,760	\$878,540	\$7,408,208
2014	\$5,382,972	\$1,113,596	\$6,496,568
2015	\$11,009,182	\$1,803,190	\$12,812,372
2016	\$6,447,585	\$1,239,899	\$7,687,484
2017	\$7,399,801	\$944,244	\$8,344,045
2018	\$6,919,640	\$878,316	\$7,797,956
2019	\$7,967,960	\$2,983,216	\$10,951,176
2020	\$7,256,305	\$1,180,566	\$8,436,871
2021	\$8,358,774	\$1,580,974	\$9,939,748
2022	\$9,703,454	\$1,860,555	\$11,564,009



College of Physical & Mathematical Sciences 2022 Awards

<u>Researcher</u>	<u>Role</u>	<u>Sponsor</u>	<u>Prime Sponsor</u>	<u>Title</u>	<u>Beg Date</u>	<u>End Date</u>	<u>Account</u>	<u>Amount</u>
Chemistry								
Andersen, Josh	PI	National Institutes of Health		The regulation and function of the ubiquitin-sensing kinase TNK1	Sep-22	Jun-23	R0102120	\$310,363
Asplund, Matthew	COI	National Science Foundation		Ambient Level OH Radical Detection Using Broadband Cavity Enhanced Absorption Spectroscopy (BBCEAS) in an Open-Path Configuration	Aug-21	Jul-23	R0112467	\$80,394
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-23	R0302983	\$55,898
Christensen, Ken	PI	Boston Children's Hospital	National Institutes of Health	Targeting CMG2 to treat endometriosis-associate pain	Sep-22	Aug-23	R0303115	\$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-23	R0303116	\$73,119
Ess, Dan	PI	Chevron Phillips Chemical		Optimization of Homogeneous Alpha Olefin Catalysts	Dec-13	Dec-22	R0602446	\$160,000
Ess, Dan	PI	National Science Foundation		Collaborative Research: Development and Assessment of Interactive Organic Reaction Animations (iORA) a Smartphone Application Based on Quantum-Mechanical Simulations	Oct-21	Sep-24	R0112470	\$99,046
Ess, Dan	PI	Phillips 66		Computational Optimization of Solid Acid Metal-Organic Frameworks Brigham Young University-Phillips 66	Sep-20	Jun-22	R0602607	\$46,342
Ess, Dan	PI	Rice University	Army Research Office	CLES-EM: Clean, Lean, and Efficient Synthesis of Energetic Materials	Jun-21	Jun-22	R0303051	\$25,001
Ess, Dan	PI	National Science Foundation		Theory and Design of Dinuclear Catalytic Reactions	Jul-22	Jun-25	R0112487	\$331,048
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-23	R0302902	\$28,930
Ess, Dan	PI	Department of Energy		Theory of Main-group, P-Block Hydrocarbon Functionalization Reactions	Sep-17	Sep-23	R0202502	\$60,228
Ess, Dan	PI	Utah State University	National Institutes of Health	Nickel Catalyzed Electrochemical C-C Cross-Coupling Reactions	Aug-21	Jul-23	R0303016	\$42,176

Hansen, David	PI	Bright Focus Foundation		Validating PILRA, an Immune Checkpoint and AD-associated Gene, as a Therapeutic Target for Alzheimer's Disease	Jul-22	Jun-25	RO502373	\$300,000
Hansen, Jaron	PI	Aqua Environmental Services		Thermophilic bacterial pretreatment of lignocellulosic and wet waste for increased biogas production	Nov-19	Jun-23	RO602622	\$9,979
Hansen, Jaron	PI	National Science Foundation		Ambient Level OH Radical Detection Using Broadband Cavity Enhanced Absorption Spectroscopy (BBCEAS) in an Open-Path Configuration	Aug-21	Jul-23	RO112467	\$80,394
Jensen, Grant	PI	National Institutes of Health		Structure and function of pathogenesis-associated bacterial structures by electron cryotomography	Apr-22	Mar-23	RO102117	\$369,480
Johnson, Jeremy	PI	National Science Foundation		Repurposing Crystalline Materials for Strong Terahertz Generation	Sep-21	Aug-24	RO112465	\$92,518
Kelly, Ryan	COI	National Institutes of Health		Biochemical Consequences of Regiospecific Metabolic Bias in the Brain	May-20	Feb-23	RO102103	\$131,593
Kelly, Ryan	PI	National Institutes of Health		Fully Automated and Ultra-high Throughput Platform for In-depth Single Cell Proteomics	Sep-20	Aug-23	RO102106	\$165,263
Kelly, Ryan	PI	National Institutes of Health		In-depth and label-free proteome profiling of hundreds of single cells per day	Sep-22	Aug-23	RO102121	\$174,176
Kelly, Ryan	COI	National Institutes of Health		Biochemical Consequences of Regiospecific Metabolic Bias in the Brain	May-20	Feb-23	RO102103	\$14,622
Kelly, Ryan	PI	Mayo Clinic	National Institutes of Health	Mayo Clinic Center for Clinical Proteomics	Jun-22	May-23	RO303105	\$86,570
Kelly, Ryan	COI	National Institutes of Health		Enhanced Sensitivity and Quantitative Precision for Single Cell Proteomics	Sep-22	May-23	RO102125	\$156,054
Kelly, Ryan	PI	Fred Hutchinson Cancer Center	National Institutes of Health	Clinical Translation of a NexGen Platform for Quantifying Protein Networks in Human Biospecimens	Apr-22	Jun-23	RO303114	\$31,745
Linford, Matthew	PI	Restek Corporation		ALD on Materials for Sample Preparation and Chromatography, and SPME	Dec-20	Dec-23	RO602619	\$72,000
Michaelis, David	COI	Rio Tinto Kennecott		Improving Vegetation Establishment on Kennecott Mine Waste Rock Dumps and Tailings	Jun-20	Dec-22	RO602635	\$44,756
Michaelis, David	COI	National Science Foundation		Repurposing Crystalline Materials for Strong Terahertz Generation	Sep-21	Aug-24	RO112465	\$92,518
Michaelis, David	COI	Rio Tinto Kennecott		Improving Vegetation Establishment on Kennecott Mine Waste Rock Dumps and Tailings	Jun-20	Dec-22	RO602635	\$4,000
Moody, James	PI	National Institutes of Health		TELSAM polymers are powerful crystallization chaperones meriting continued investigation	May-22	Apr-25	RO102118	\$429,095
Paxton, Wally	PI	University of Utah	National Aeronautics and Space Administration	Self-Immolating Polymers for Dust-Mitigating Optical Surfaces	May-22	May-23	RO303075	\$8,750

Paxton, Wally	COI	Octagon II	Air Force Research Laboratory	Additive Manufacturing of Radiation Hardened Components for Orbital Position Tracking	Jul-22	Dec-22	Ro303081	\$28,500
Paxton, Wally	PI	University of Utah	National Aeronautics and Space Administration	Self-Immolating Polymers for Dust-Mitigating Optical Surfaces	May-22	May-23	Ro303075	\$8,750
Paxton, Wally	PI	Duracell		Optimizing Battery Safety Layer Formulation: Enhanced Humidity Tolerance to Prevent Premature Failure	Oct-22	Sep-23	Ro602695	\$32,000
Paxton, Wally	PI	Duracell		Saliva Proteomics: Identifying Digestive Enzymes in Children's Saliva	Oct-22	Oct-23	Ro602696	\$3,750
Price, John	PI	National Institutes of Health		Biochemical Consequences of Regiospecific Metabolic Bias in the Brain	May-20	Feb-23	Ro102103	\$131,593
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-23	Ro302983	\$55,898
Price, John	PI	University of Utah	National Institutes of Health	LOOH-induced muscle atrophy with age	Feb-22	Nov-22	Ro303084	\$11,172
Price, John	PI	National Institutes of Health		Biochemical Consequences of Regiospecific Metabolic Bias in the Brain	May-20	Feb-23	Ro102103	\$14,622
Price, John	COI	Boston Children's Hospital	National Institutes of Health	Targeting CMG2 to treat endometriosis-associate pain	Sep-22	Aug-23	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-23	Ro303116	\$73,119
Price, John	COI	Duracell		Saliva Proteomics: Identifying Digestive Enzymes in Children's Saliva	Oct-22	Oct-23	Ro602696	\$3,750
Savage, Paul	PI	N8 Medical		Collection Account for Royalty Payments	May-04	Dec-22	Ro802005	\$12,500
Savage, Paul	PI	Scripps Research Institute	National Institutes of Health	Mechanistic studies of combination adjuvants to target B cells in vaccines	Apr-21	Mar-23	Ro303055	\$90,000
Savage, Paul	PI	N8 Medical		Collection Account for Royalty Payments	May-04	Dec-22	Ro802005	\$12,500
Savage, Paul	PI	N8 Medical		Collection Account for Royalty Payments	May-04	Dec-22	Ro802005	\$162,033
Savage, Paul	PI	N8 Medical		Collection Account for Royalty Payments	May-04	Dec-22	Ro802005	\$12,500
Savage, Paul	PI	Vanderbilt University Medical Center	National Institutes of Health	Molecular Basis of CD1D and Natural Killer T Cell Function	Aug-20	Jul-23	Ro302883	\$37,500
Savage, Paul	PI	N8 Medical		Collection Account for Royalty Payments	May-04	Dec-22	Ro802005	\$12,500
Van Ry, Pam	PI	Jain Foundation Inc.		Galectin-1: A potential protein therapy for Limb Girdle Muscular Dystrophy type 2B-year 3	Jan-22	Dec-22	Ro502357	\$171,307
Van Ry, Pam	PI	Jain Foundation Inc.		6-month treatment with Galectin-1 improves functional, histological and biochemical markers of dysferlinopathy	Jan-23	Dec-23	Ro502383	\$171,238
Willardson, Barry	PI	National Institutes of Health		Structural Basis Chaperone	Mar-22	Jun-23	Ro102116	\$16,435

Willardson, Barry	PI	National Institutes of Health		Structural Basis Chaperone	Jul-21	Jun-23	R0102110	\$385,888
Willardson, Barry	PI	National Institutes of Health		Structural Basis Chaperone	Mar-22	Jun-23	R0102116	\$29,838
Willardson, Barry	PI	National Institutes of Health		Structural Basis Chaperone	Mar-22	Jun-23	R0102116	\$16,435
Woolley, Adam	COI	National Institutes of Health		3D printed, multi-material microfluidic calorimetry: Critical tools to study protein stability	Sep-22	Aug-25	R0102124	\$133,628

Computer Science

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-23	R0302806	\$50,000
Fulda, Nancy	COI	National Science Foundation		EAGER: Harnessing Accurate Bias in Large-Scale Language Models	Sep-21	Feb-23	R0112468	\$31,491
Fulda, Nancy	COI	National Science Foundation		MRI: Acquisition of the LanguageLens for Large-Scale Language Modeling	Aug-22	Jul-25	R0112506	\$199,763
Fulda, Nancy	COI	National Science Foundation		MRI: Acquisition of the LanguageLens for Large-Scale Language Modeling-REU	Aug-22	Jul-25	R0112507	\$3,200
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-23	R0302806	\$50,000
Goodrich, Michael	PI	Oregon State University	Office of Naval Research	A Formal Framework for Developing Resilient Teams of Heterogeneous Autonomous Agents	Aug-20	Aug-23	R0302835	\$50,000
Snell, Quinn	PI	Sandia National Laboratories		Transformers for Cybersecurity	Jul-22	Jun-23	R0303094	\$10,000
Warnick, Sean	PI	Department of Homeland Security		Sean Warnick Intergovernmental Personnel Act (IPA) Assignment from DHS	Jan-22	Jan-23	R0202565	\$279,441
Wingate, David	PI	National Science Foundation		EAGER: Harnessing Accurate Bias in Large-Scale Language Models	Sep-21	Feb-23	R0112468	\$31,491
Wingate, David	PI	National Science Foundation		MRI: Acquisition of the LanguageLens for Large-Scale Language Modeling	Aug-22	Jul-25	R0112506	\$199,763
Wingate, David	PI	National Science Foundation		MRI: Acquisition of the LanguageLens for Large-Scale Language Modeling-REU	Aug-22	Jul-25	R0112507	\$3,200

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	RO112444	\$71,329
Hudson, Sam	PI	Dominion Energy Wexpro		Geologic Mapping of the Chicken Springs SE quadrangle, southern Wyoming	Feb-22	May-23	RO602679	\$15,000
Hudson, Sam	PI	Zanskar Geothermal & Minerals		Basin-Centered Sedimentary Geothermal Systems of the Basin and Range: Pilot Study	Jan-22	Jan-23	RO602673	\$7,817
LeMonte, Joshua	COI	National Science Foundation		Integrating genomic and phenotypic analyses to understand microbial life in Antarctic soils	Apr-22	Mar-25	RO112480	\$100,906
LeMonte, Joshua	COI	National Science Foundation		Integrating genomic and phenotypic analyses to understand microbial life in Antarctic soils	Apr-22	Mar-25	RO112481	\$1,750
LeMonte, Joshua	COI	National Science Foundation		Integrating genomic and phenotypic analyses to understand microbial life in Antarctic soils	Apr-22	Mar-25	RO112480	\$20,531
Radebaugh, Jani	PI	Johns Hopkins University	National Aeronautics and Space Administration	Dragonfly Rotorcraft Lander for Titan - Phase B Addition	Apr-22	Jan-23	RO303070	\$3,980
Radebaugh, Jani	PI	Johns Hopkins University	National Aeronautics and Space Administration	Dragonfly Rotorcraft Lander for Titan - Phase B Addition	Apr-22	Jan-23	RO303070	\$34,800
Mathematics								
Allen, Mark	PI	Simons Foundation		Nonlocal Equations and Free Boundary Problems	Sep-19	Aug-24	RO502315	\$8,400
Andersen, Nick	PI	Simons Foundation		Arithmetic applications of automorphic forms	Sep-21	Aug-26	RO502351	\$8,400
Boyd, Zachary	PI	University of Pennsylvania	Department of Defense	Multiscale integration of neural, social, and network theory to understand and predict transitions from illness to wellness: a proof of concept with mindfulness, hypnosis and alcohol use disorders	Jul-21	Jul-23	RO303053	\$14,656
Boyd, Zachary	PI	University of Pennsylvania	Department of Defense	Multiscale integration of neural, social, and network theory to understand and predict transitions from illness to wellness: a proof of concept with mindfulness, hypnosis and alcohol use disorders	Jul-21	Jul-23	RO303053	\$19,695
Dorff, Michael	PI	National Science Foundation		Interdisciplinary data science training faculty workshop	Apr-22	Mar-23	RO112482	\$14,393
Dorff, Michael	PI	National Science Foundation		Interdisciplinary data science training faculty workshop	Apr-22	Mar-23	RO112483	\$35,000
Dorff, Michael	PI	Mathematical Association of America	National Science Foundation	PIC Math: Preparation for Industrial Careers in Mathematical Sciences	Aug-17	Jul-23	RO302780	\$10,000

Hughes, Mark	PI	National Science Foundation		LEAPS-MPS: Deep learning the knot landscape	Sep-22	Aug-24	R0112486	\$249,783
Jarvis, Tyler	COI	Tula Health, Inc.		TULA health - Non-Invasive health sensing	Apr-21	Aug-25	R0602659	\$69,250
Jarvis, Tyler	COI	Tula Health, Inc.		TULA health - Non-Invasive health sensing	Apr-21	Aug-25	R0602659	\$71,615
Kent, Curt	PI	Simons Foundation		Topology of Coarse Geometry Structures	Sep-18	Aug-23	R0502275	\$8,400
Nielsen, Pace	PI	Simons Foundation		Computational Number Theory and Ring Theory	Sep-22	Aug-27	R0502380	\$8,400
Priddis, Nathan	PI	Simons Foundation		Mirror Symmetry and the LG/CY Correspondence	Sep-18	Aug-23	R0502276	\$8,400
Webb, Ben	PI	National Science Foundation		Learning Using Thinned Networks: A Crowd Sourcing Phenomena in Reservoir Computing	Aug-22	Jul-25	R0112496	\$193,155
Whitehead, Jared	PI	National Science Foundation		Collaborative Research: Data Assimilation for Turbulent Flows: Dynamic Model Learning and Solution Capturing	Jul-22	Jun-25	R0112489	\$174,703
Whitehead, Jared	PI	Simons Foundation		Analysis and Computation of Geophysical Fluid Dynamics	Sep-18	Aug-23	R0502277	\$8,400
Mathematics Education								
Teuscher, Dawn	PI	National Science Foundation		Collaborative Research: Quantifying Curricular Reasoning as a Critical Practice in Teaching Mathematics	Aug-22	Jul-23	R0112501	\$143,500
Teuscher, Dawn	PI	National Science Foundation		Collaborative Research: Quantifying Curricular Reasoning as a Critical Practice in Teaching Mathematics-Participant Costs	Aug-22	Jul-23	R0112502	\$600
Physics & Astronomy								
Allred, David	PI	Photonic Cleaning Technologies LLC		Fundamental studies on the surface cleanliness of optical surfaces after cleaning with first contact and its specialty formulations.	Jan-22	Dec-22	R0602678	\$25,000
Allred, David	PI	Jonathan F. Reichert Foundations		ALPHA Immersion Support	Oct-22	Sep-23	R0502379	\$3,750
Anderson, Brian	PI	Sandia National Laboratories	Department of Energy	Acoustic time reversal for broadband random environments	Mar-22	Sep-23	R0303050	\$80,000
Anderson, Brian	COI	Michigan State	National Institutes of Health	Protecting Teacher's Voices: Investigating Risk Factors, Conducting Analysis	May-21	Apr-23	R0302986	\$74,809
Anderson, Brian	PI	Los Alamos National Laboratory	Department of Energy	Source Signature Encryption and Super Resolution Imaging using Near Field Scattering	Jun-19	Dec-23	R0302863	\$83,960
Anderson, Brian	PI	Sandia National Laboratories	Department of Energy	Acoustic time reversal for broadband random environments	Mar-22	Sep-23	R0303050	\$80,000

Bergeson, Scott	PI	National Science Foundation		Collaborative Research Proposal: Ultracold Neutral Plasmas as High Energy Density Plasma Simulators	Jun-20	May-23	RO112438	\$126,974
Boizelle, Benjamin	PI	Space Telescope Science Institute	National Aeronautics and Space Administration	Precision Measurement of Black Hole Masses in Early-Type Galaxies from the ALMA Archive	Apr-21	Mar-23	RO302987	\$18,278
Boizelle, Benjamin	PI	Space Telescope Science Institute	National Aeronautics and Space Administration	Precision Measurement of Black Hole Masses in Early-Type Galaxies from the ALMA Archive	Apr-21	Mar-23	RO302987	\$18,278
Boizelle, Benjamin	PI	Space Telescope Science Institute	National Aeronautics and Space Administration	Precision Measurement of Black Hole Masses in Early-Type Galaxies from the ALMA Archive	Apr-21	Mar-23	RO302987	\$18,278
Colton, John	COI	National Science Foundation		REU Site: Physics Research at Brigham Young University. This record is for the Participant Support Costs portion of the overall award.	Jul-18	Jun-23	RO112384	\$25,333
Davis, Robert	PI	Tula Health, Inc.		TULA health - Non-Invasive health sensing	Apr-21	Aug-25	RO602659	\$69,250
Davis, Robert	PI	Tula Health, Inc.		TULA health - Non-Invasive health sensing	Apr-21	Aug-25	RO602659	\$71,615
Frandsen, Benjamin	PI	Department of Energy		Probing Short-Range Structure and Magnetism In Next-Generation Energy Conversion Materials	Sep-21	Aug-23	RO202542	\$152,809
Gee, Kent	COI	Blue Ridge Research and Consulting	Army	Acoustic Background Noise Analysis for Mission Planning and Community Noise	Dec-18	Sep-22	RO302825	\$5,000
Gee, Kent	PI	Office of Naval Research	Department of Defense	A Scalable Acoustic Vector Measurement System For Characterizing Jet Aeroacoustics	Mar-22	Feb-23	RO202566	\$253,750
Gee, Kent	COI	Blue Ridge Research and Consulting	Army	Acoustic Background Noise Analysis for Mission Planning and Community Noise	Dec-18	Sep-22	RO302825	\$2,500
Gee, Kent	PI	National Institute of Aerospace	National Aeronautics and Space Administration	Analysis of sonic boom measurement variability	Sep-20	May-23	RO302944	\$99,720
Gee, Kent	PI	University of Utah	National Aeronautics and Space Administration	Student-led acoustical measurements of the Space Launch System Artemis 1 mission	May-20	May-23	RO302995	\$2,500
Gee, Kent	PI	ENSCO, Inc.	Air Force	Launch vehicle acoustic modeling	Oct-22	Sep-23	RO303113	\$53,028
Hart, Grant	COI	University of Utah	National Aeronautics and Space Administration	Student-led acoustical measurements of the Space Launch System Artemis 1 mission	May-20	May-23	RO302995	\$2,500
Hart, Grant	COI	ENSCO, Inc.	Air Force	Launch vehicle acoustic modeling	Oct-22	Sep-23	RO303113	\$53,028
Hirschmann, Eric	COI	National Science Foundation		Collaborative Research: Accelerating the Pace of Discovery in Numerical Relativity by Improving Computational Efficiency and Scalability	Sep-22	Aug-25	RO112503	\$168,000
Hirschmann, Eric	COI	National Science Foundation		Collaborative Research: Accelerating the Pace of Discovery in Numerical Relativity by Improving Computational Efficiency and Scalability-REU	Sep-22	Aug-25	RO112504	\$12,000

Hirschmann, Eric	COI	National Aeronautics and Space Administration		Bianary black hole waveforms for LISA using numerical relativity	Jan-20	Jan-23	R0162042	\$73,131
Lawler, Margaret	PI	Southeastern Planetarium Association		Secret Lives of Stars - ASL Interpretation	Jun-22	Dec-22	R0502368	\$500
Neilsen, David	PI	National Science Foundation		Collaborative Research: Accelerating the Pace of Discovery in Numerical Relativity by Improving Computational Efficiency and Scalability	Sep-22	Aug-25	R0112503	\$168,000
Neilsen, David	PI	National Science Foundation		Collaborative Research: Accelerating the Pace of Discovery in Numerical Relativity by Improving Computational Efficiency and Scalability-REU	Sep-22	Aug-25	R0112504	\$12,000
Neilsen, David	PI	National Aeronautics and Space Administration		Bianary black hole waveforms for LISA using numerical relativity	Jan-20	Jan-23	R0162042	\$73,131
Neilsen, Traci	PI	KSA, LLC	Department of Defense	Through the Sensor Statistical Inference Module (SIM) for Assessing Predictions made on SSNs	Dec-18	Apr-22	R0302848	\$2,250
Neilsen, Traci	PI	Office of Naval Research	Department of Defense	Informational Geometry for Optimal Design of Geoacoustic Inversions	Jul-21	Jul-24	R0202555	\$59,266
Neilsen, Traci	PI	Office of Naval Research	Department of Defense	Hybrid approach to seabed characterization using shipping noise	May-22	Apr-25	R0202570	\$50,000
Neilsen, Traci	PI	Office of Naval Research	Department of Defense	Hybrid approach to seabed characterization using shipping noise	May-22	Apr-25	R0202570	\$30,730
Peatross, Justin	COI	National Science Foundation		Precision Measurements Using Nonlinear Thomson Scattering	Aug-22	Jul-25	R0112500	\$224,540
Powers, Nathan	COI	Jonathan F. Reichert Foundations		ALPHA Immersion Support	Oct-22	Sep-23	R0502379	\$3,750
Ragozzine, Darin	PI	Space Telescope Science Institute	National Aeronautics and Space Administration	Toward a more complete understanding of Haumea's family tree	Dec-20	Nov-23	R0302962	\$17,340
Ragozzine, Darin	PI	National Science Foundation		CAREER: The True Mass-Radius-Period Distribution of Small Exoplanets	Mar-22	Feb-27	R0112477	\$358,558
Ragozzine, Darin	PI	University of Arizona	National Aeronautics and Space Administration	Tools for Advanced Dynamical Characterization of Solar System Small Bodies - BYU Subcontract	Apr-22	Mar-23	R0303067	\$51,734
Ragozzine, Darin	PI	Space Telescope Science Institute	National Aeronautics and Space Administration	HST-17206.003 - Investigating Planet Formation in the Cold Classical TNOs Through Non-Keplerian Analysis	Dec-22	Nov-25	R0303134	\$18,164
Sandberg, Richard	COI	Nevada National Security Site	Department of Energy	Feasibility Study of X-ray Quantum Imaging	Jan-22	Sep-22	R0303044	\$25,000
Sandberg, Richard	COI	Nevada National Security Site	Department of Energy	Feasibility Study of X-ray Quantum Imaging	Jan-22	Sep-22	R0303044	\$35,000

Sandberg, Richard	COI	University of Utah	National Aeronautics and Space Administration	Self-Immolating Polymers for Dust-Mitigating Optical Surfaces	May-22	May-23	R0303075	\$8,750
Sandberg, Richard	PI	Arizona State University	National Science Foundation	Improving an in-vacuum monochromator for a broadband EUV light source	May-22	Aug-22	R0303077	\$379
Sandberg, Richard	PI	Department of Energy		Tracking intergranular strain dynamics with near-atomic scale coherent x-ray imaging at next generation light sources	Aug-21	Jul-23	R0202562	\$125,401
Sandberg, Richard	PI	Los Alamos National Laboratory	Department of Energy	Development of rapid, three dimensional, nanometer scale x-ray imaging	Sep-20	Dec-22	R0302942	\$100,000
Sandberg, Richard	COI	University of Utah	National Aeronautics and Space Administration	Self-Immolating Polymers for Dust-Mitigating Optical Surfaces	May-22	May-23	R0303075	\$8,750
Sandberg, Richard	PI	Los Alamos National Laboratory	Department of Energy	Diamond Detector Readout Electronics for X-Ray Ptychography	Sep-22	Sep-24	R0303106	\$49,130
Sandberg, Richard	PI	Nevada National Security Site	Department of Energy	Feasibility Study of X-ray Quantum Imaging	Jan-22	Sep-23	R0303109	\$41,098
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	\$39,366
Shepherd, Micah	PI	Pennsylvania State University	Office of Naval Research	Hybrid Damping for Rotorcraft Panel Noise Reduction	Sep-22	Aug-23	R0303132	\$18,961
Shepherd, Micah	PI	Institute for Scientific Research in Music		Optimization of Anechoic Musical Instrument Recordings	Nov-22	Nov-24	R0502381	\$75,000
Sommerfeldt, Scott	PI	Caterpillar		Detection of external speech signals in noise and development of next-generation audio system	Jan-22	Dec-22	R0602681	\$33,989
Transtrum, Mark	PI	Blue Ridge Research and Consulting	Army	Acoustic Background Noise Analysis for Mission Planning and Community Noise	Dec-18	Sep-22	R0302825	\$5,000
Transtrum, Mark	COI	KSA, LLC	Department of Defense	Through the Sensor Statistical Inference Module (SIM) for Assessing Predictions made on SSNs	Dec-18	Apr-22	R0302848	\$2,250
Transtrum, Mark	COI	National Institutes of Health		Biochemical Consequences of Regiospecific Metabolic Bias in the Brain	May-20	Feb-23	R0102103	\$131,593
Transtrum, Mark	PI	Blue Ridge Research and Consulting	Army	Acoustic Background Noise Analysis for Mission Planning and Community Noise	Dec-18	Sep-22	R0302825	\$2,500
Transtrum, Mark	COI	Office of Naval Research	Department of Defense	Informational Geometry for Optimal Design of Geoacoustic Inversions	Jul-21	Jul-24	R0202555	\$59,266
Transtrum, Mark	PI	Cornell University	National Science Foundation	Center for Bright Beams	Oct-16	Sep-23	R0302718	\$41,866
Transtrum, Mark	PI	Cornell University	National Science Foundation	Center for Bright Beams	Oct-16	Sep-23	R0302800	\$6,000
Transtrum, Mark	COI	National Institutes of Health		Biochemical Consequences of Regiospecific Metabolic Bias in the Brain	May-20	Feb-23	R0102103	\$14,622

Transtrum, Mark	PI	Lawrence Livermore National Labs	Department of Energy	Predictive Atomistic Materials Simulations with Uncertainty Quantification	Dec-22	Sep-23	RO303135	\$96,813
Van Huele, Jean-Francois	PI	Arizona State University	National Science Foundation	WAESO Quantum Dynamics and Quantum Clocks	May-22	Aug-22	RO303074	\$455
Van Huele, Jean-Francois	PI	National Science Foundation		REU Site: Physics Research at Brigham Young University. This record is for the Participant Support Costs portion of the overall award.	Jul-18	Jun-23	RO112384	\$25,333
Vanfleet, Richard	COI	Tula Health, Inc.		TULA health - Non-Invasive health sensing	Apr-21	Aug-25	RO602659	\$69,250
Vanfleet, Richard	COI	Tula Health, Inc.		TULA health - Non-Invasive health sensing	Apr-21	Aug-25	RO602659	\$71,615
Verhaaren, Chris	PI	National Science Foundation		Uncovering Physics Beyond the Standard Model	Aug-22	Jul-25	RO112505	\$75,000
Ware, Michael	PI	National Science Foundation		Precision Measurements Using Nonlinear Thomson Scattering	Aug-22	Jul-25	RO112500	\$224,540

Statistics

Heaton, Matt	PI	National Science Foundation		ENVR 2022 Workshop: Environmental and Ecological Statistical Research and Applications with Societal Impacts	Jul-22	Jun-23	RO112491	\$24,000
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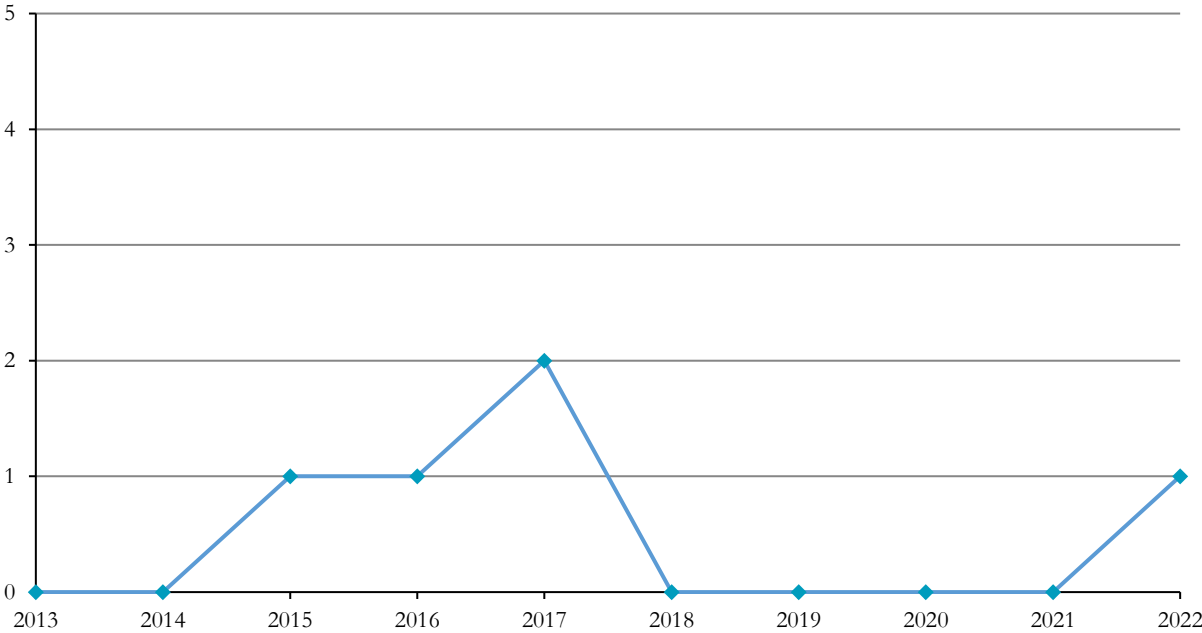
Religious Education

Summary by Departments

Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards*	Dollars Awarded*
Ancient Scripture	0	0	0	\$0
Church History & Doctrine	1	1	0	\$0
TOTALS	1	1	0	\$0

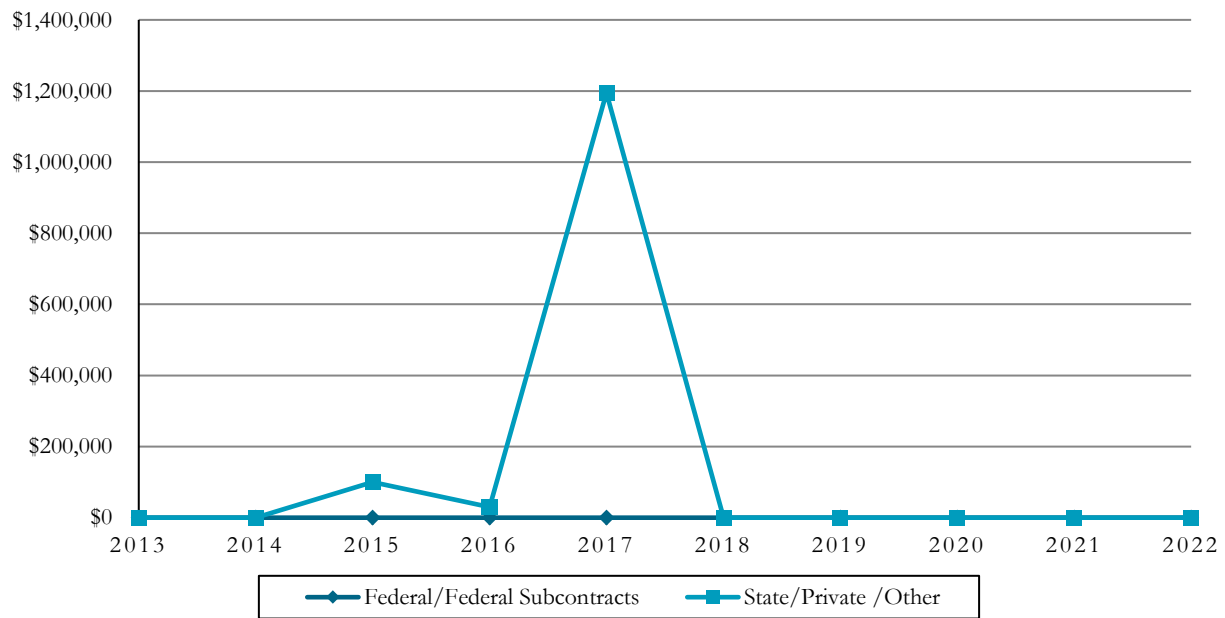
*Number of Awards are counted by PI only, while total Dollars Awarded is split between all researchers

Proposal Submissions



Awards by Sources

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private /Other	
2013	\$0	\$0	\$0
2014	\$0	\$0	\$0
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





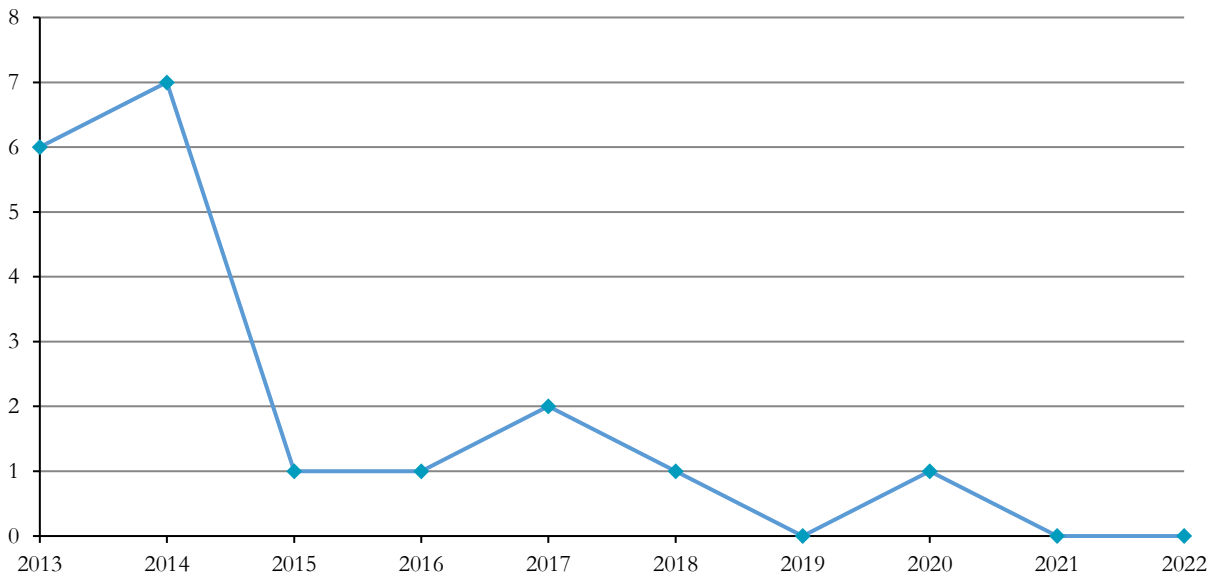
Non-College Units

Summary by Units

Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards*	Dollars Awarded*
Harold B. Lee Library	0	0	0	\$0
Research Administration Office	0	0	0	\$0
TOTALS	0	0	0	\$0

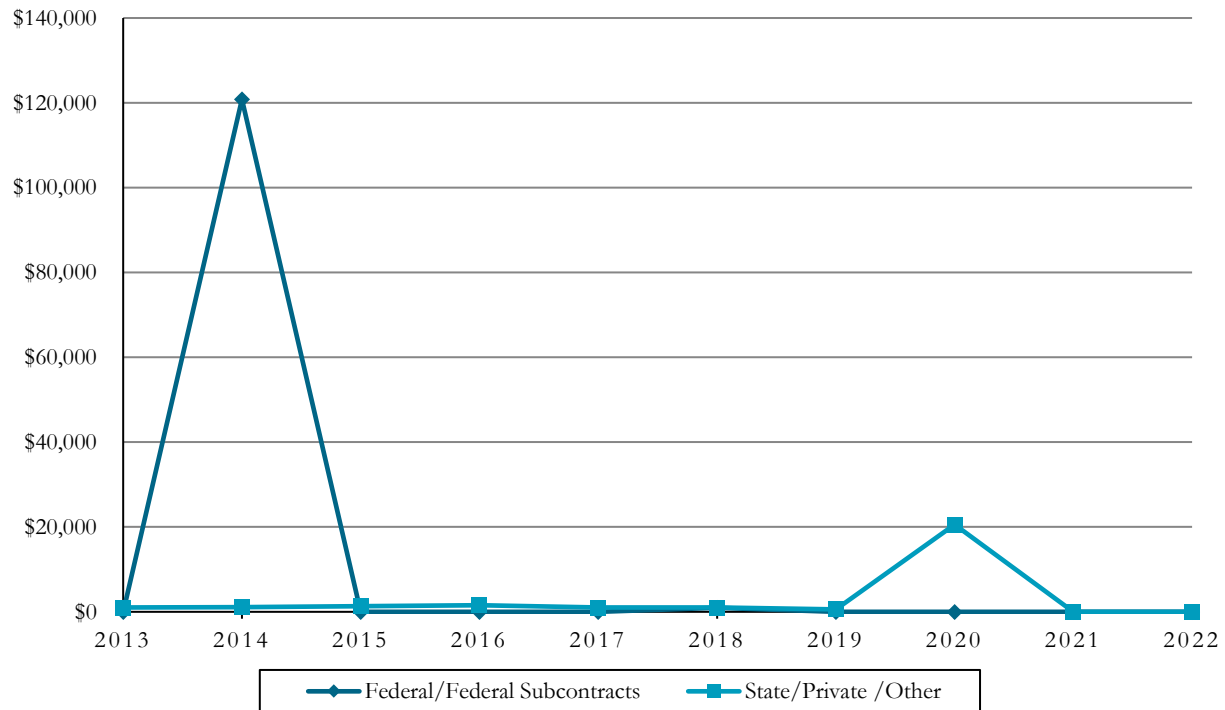
*Number of Awards are counted by PI only, while total Dollars Awarded is split between all researchers

Proposal Submissions



Awards by Sources

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private /Other	
2013	\$0	\$1,047	\$1,047
2014	\$120,816	\$1,066	\$121,816
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





Compliance Committees

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 2022 through December 2022 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 2022, the IACUC accomplished the following:

- 13 IACUC meetings
- Maintained 68 active IACUC protocols
- processed over 200 submissions, including 22 new protocols, 21 study amendments, 86 personnel amendments, 3 holding protocol amendments, and 70+ 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 2022, the IBC accomplished the following:

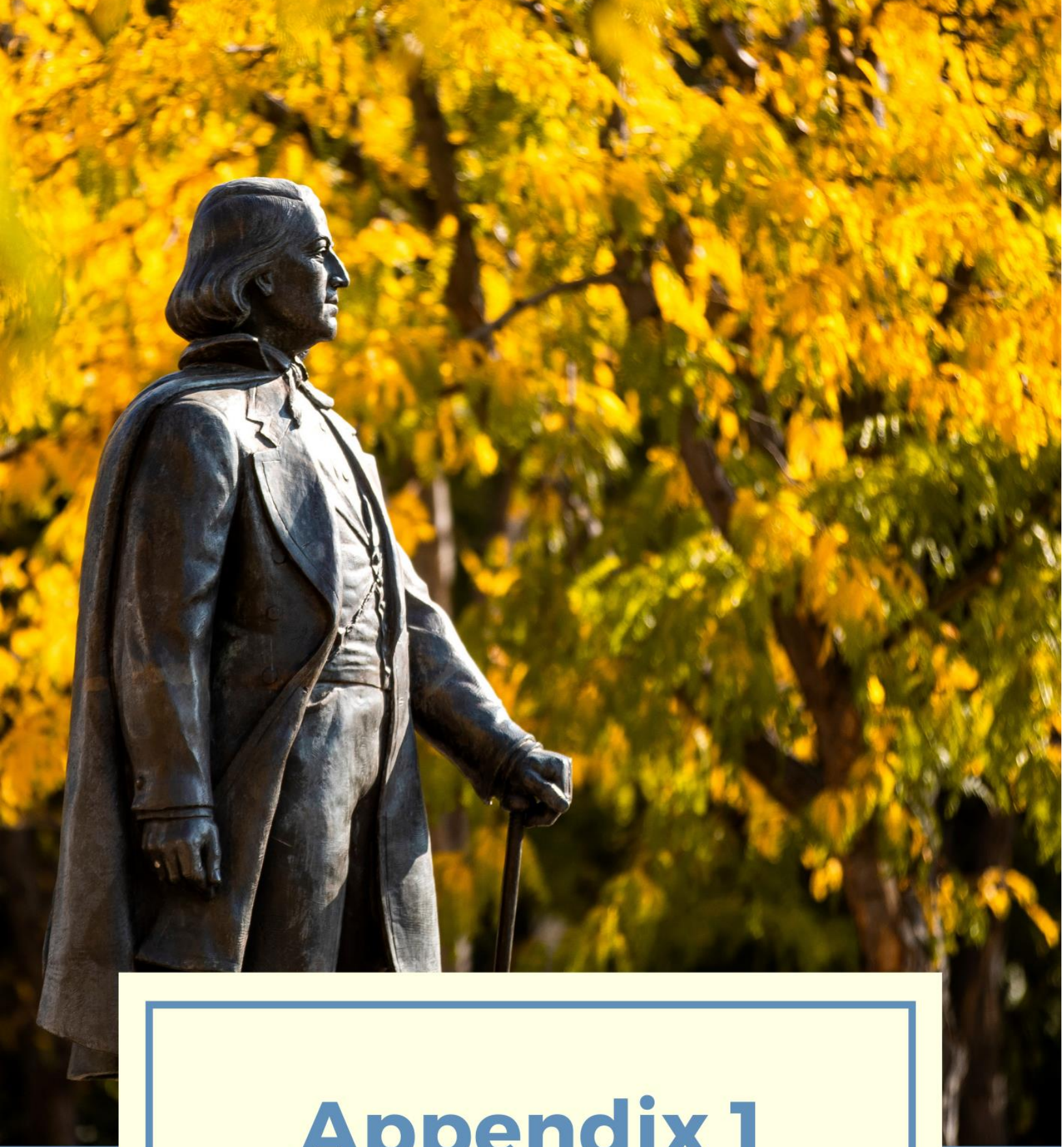
- 6 IBC meetings
- Maintained 62 active IBC protocols
- processed over 30 submissions, including 10 new protocols, and 3 personnel amendments, along with other administrative actions

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

The purpose and responsibility of the Human Research Protection Program (HRPP) are to protect the rights and welfare of human subjects. In its second year of existence, the HRPP works with other entities on campus that support human subject research. The HRPP brings together areas of BYU supporting or conducting human subject research and works in a collaborative effort to support all who participate, conduct, review, or facilitate human subject research. The HRPP, which oversees the IRB, is established to review all BYU human subjects research regardless of the source of funding.

The table below includes the number of human research study transactions in 2022.

2022 Total Number of Applications	
Total Number of New Applications Submitted	499
Number of Applications Approved	435
Number of Modifications to Approved Studies	505
Continuing Reviews	119
Number of Submission Corrections	1205
Adverse Event Reports	1
Total Number of Protocol Transactions	2,365



Appendix 1

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 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 Redd

Administrative Assistant: Christina Triptow

Associate Director, HRPP: Sandee Aina

IRB Administrator: Wayne Larsen

IRB Secretary: Stephanie Coyne

IRB Secretary: 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: Lindsey Edwards

Business Systems Analyst: Audrey Coria

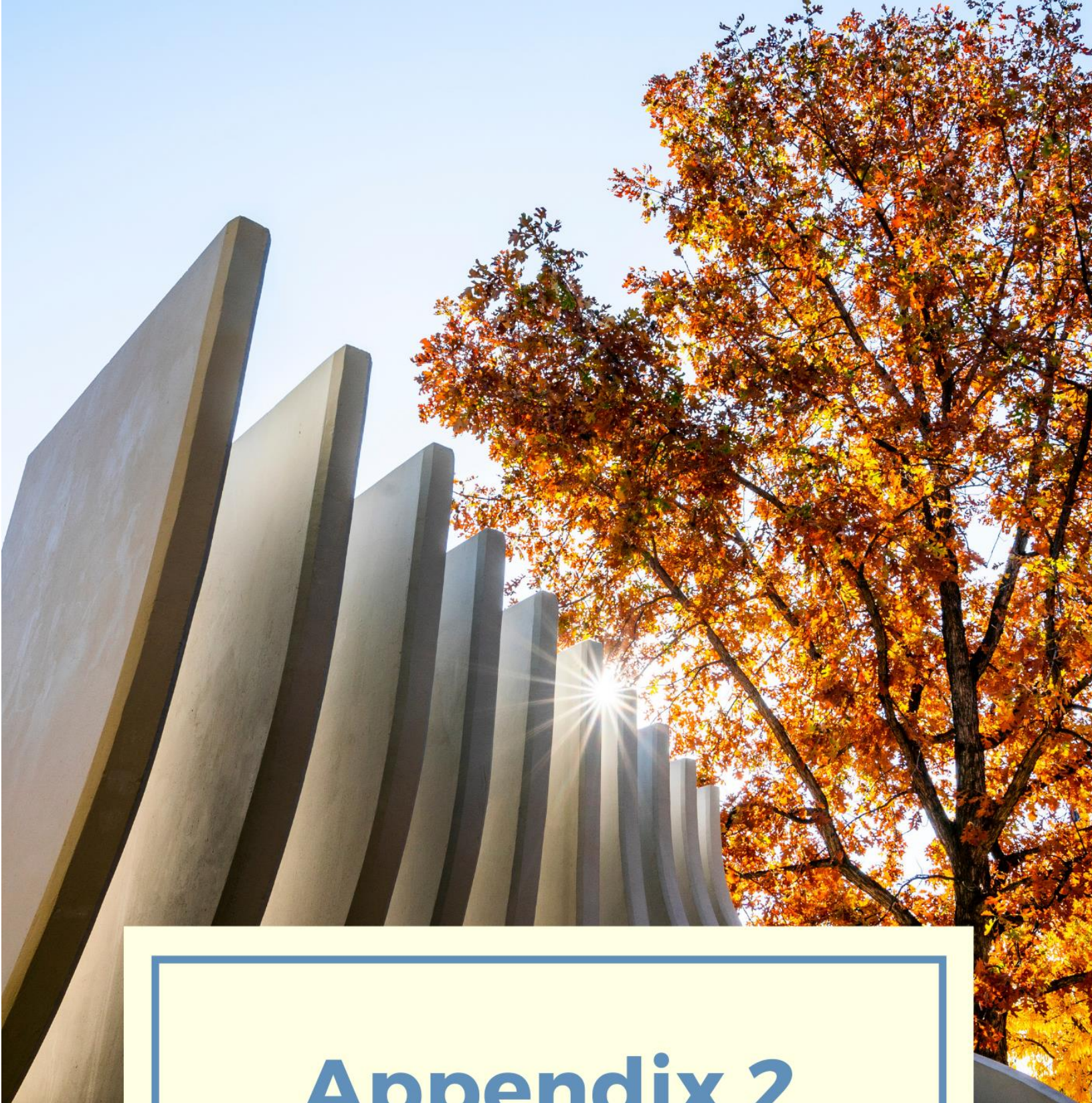
- 1) Policy Review and Development
 - ◆ Develop policies and procedures to foster research.
 - ◆ Publish policy brochures for dissemination to campus community.
 - ◆ Update BYU policies relevant to research and creative activities in the electronic handbook.
 - ◆ Monitor research accounts in conjunction 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.
 - ◆ Monitor requests for proposals and deadlines.
 - ◆ Work with Research Development to disseminate information on funding opportunities to faculty.
- 3) Proposal Preparation and Submission
 - ◆ Provide support for faculty in using Kualii.
 - ◆ Coordinate the preparation of large, inter-collegiate, and inter-institutional research proposals.
 - ◆ Assist with proposal budgets and proposal processing for internal approvals.
 - ◆ Assist in developing process/software for budgets and forms.
 - ◆ Assist in creating, reviewing, approving, and submitting proposals in Kualii 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.
 - ◆ 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.
 - ◆ Work with the Inventory Office to manage government property to assure compliance with federal regulations.
 - ◆ Assure compliance with reporting requirements and manage closeout documentation.
 - ◆ Oversee three compliance committees and assist them through secretarial support for meetings, correspondence, and protocol approval.
- 6) Negotiating and Interfacing with Subcontractors and Independent Contractors/Consultants
 - ◆ Negotiate terms of agreements or subcontracts.
 - ◆ Monitor agency regulations and BYU policy and procedures for stipulations concerning subcontracts and/or independent consultants/contractors.
 - ◆ Prepare contracts, amendments, payment documents, and initiate processing through the university.
 - ◆ Administer contractual terms between prime contractor (BYU) and subcontractors and or/consultants.

- 7) Project and Account Management (Post-Award)
 - ◆ Control assignment of account numbers and coordinate activation with GCA.
 - ◆ Monitor research accounts in conjunction with GCA to assure compliance with contract requirements, government regulations, and BYU policy.
 - ◆ 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 with GCA, PI, and Sponsors.

- 8) Financial Management
 - ◆ Document cost sharing processes and approvals.
 - ◆ Prepare and publish yearly financial reports in RAO Annual Report.
 - ◆ Monthly reports available on demand in Kualu 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 problems such as termination or nonpayment of invoices.

- 10) Office Management
 - ◆ Assist in budget management and accounting of RAO accounts.
 - ◆ Compile an annual report of university research activities.
 - ◆ Monitor and compile Full-time Equivalency reports.
 - ◆ Assist in the submission of project reports and process award closeouts.
 - ◆ Maintain RAO website (<http://rao.byu.edu>).
 - ◆ Maintain back-up of RAO files.
 - ◆ Reconcile and merge CITI training records.
 - ◆ Grant access to users of iRIS.
 - ◆ Add non full-time employees to the manual Kualu HR feed on an as needed basis.



Appendix 2

Compliance Obligations (As Per Federal Statute or Regulation)

The following pages list those 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.

Regulatory Framework

- Uniform Guidance
- 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 – NSF
- 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)