

The 2023 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 2023 are also in Kuali Research and can be viewed individually in the Award Module (<https://byures.kuali.co/dashboard/common-tasks>)

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

Thank you,

Debbie Silversmith  
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# 2023 ANNUAL REPORT OF SPONSORED RESEARCH

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RESEARCH  
ADMINISTRATION  
OFFICE





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# Preface

This report covers January 1, 2023, to December 31, 2023.

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.



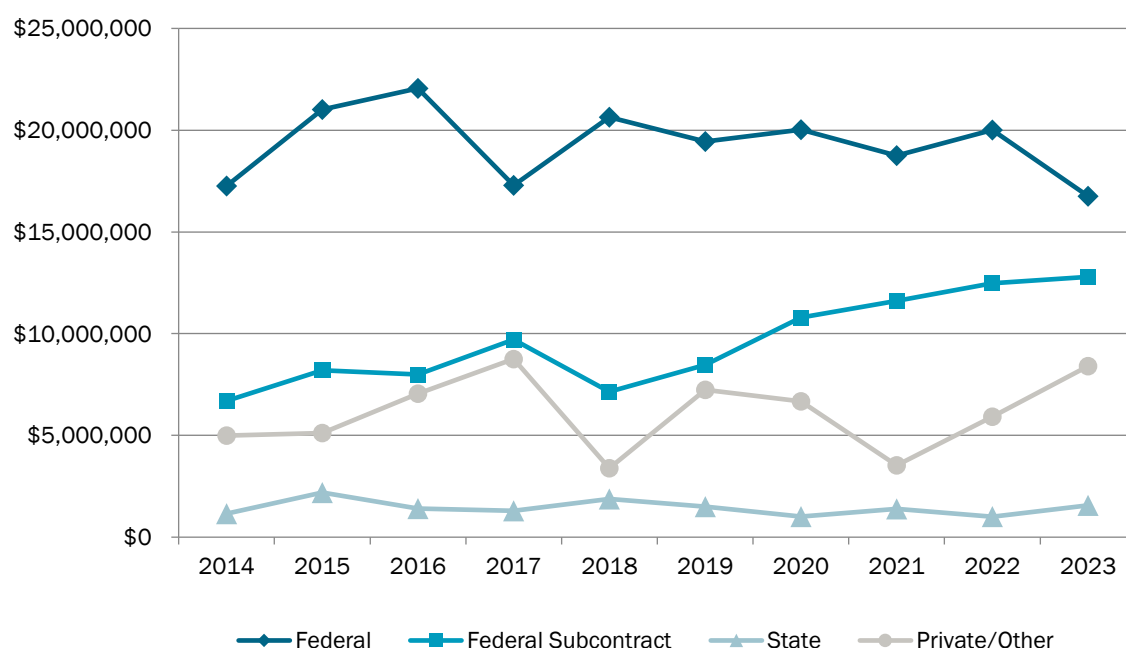
# THE UNIVERSITY





# External Research Funding

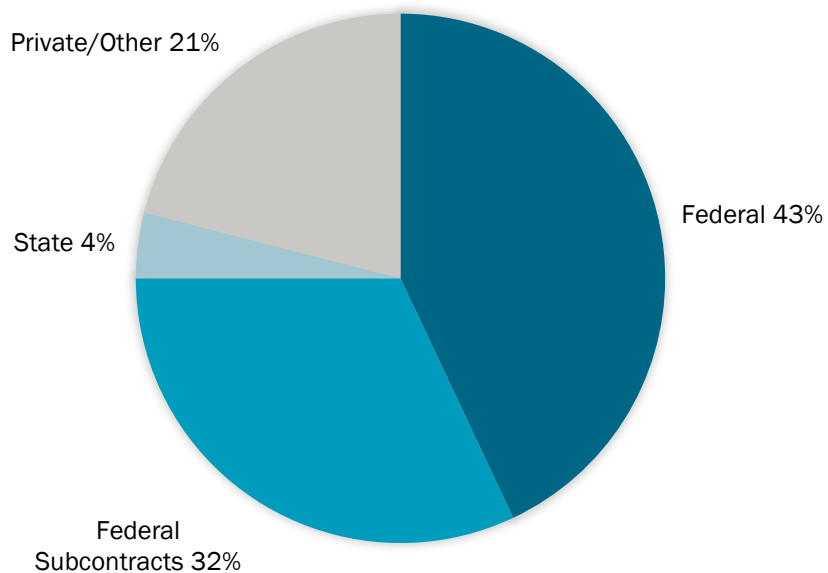
Grants/Contracts						
Year	Federal	Federal Subcontract	State	Private/Other	Total	%Federal
2014	\$17,260,137	\$6,693,946	\$1,151,886	\$4,984,448	\$30,090,417	79%
2015	\$21,015,987	\$8,205,836	\$2,192,841	\$5,115,501	\$36,433,016	80%
2016	\$22,056,396	\$7,987,588	\$1,411,764	\$7,051,367	\$38,507,115	78%
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%
2023	\$16,757,384	\$12,790,861	\$1,564,279	\$8,403,643	\$39,516,167	75%





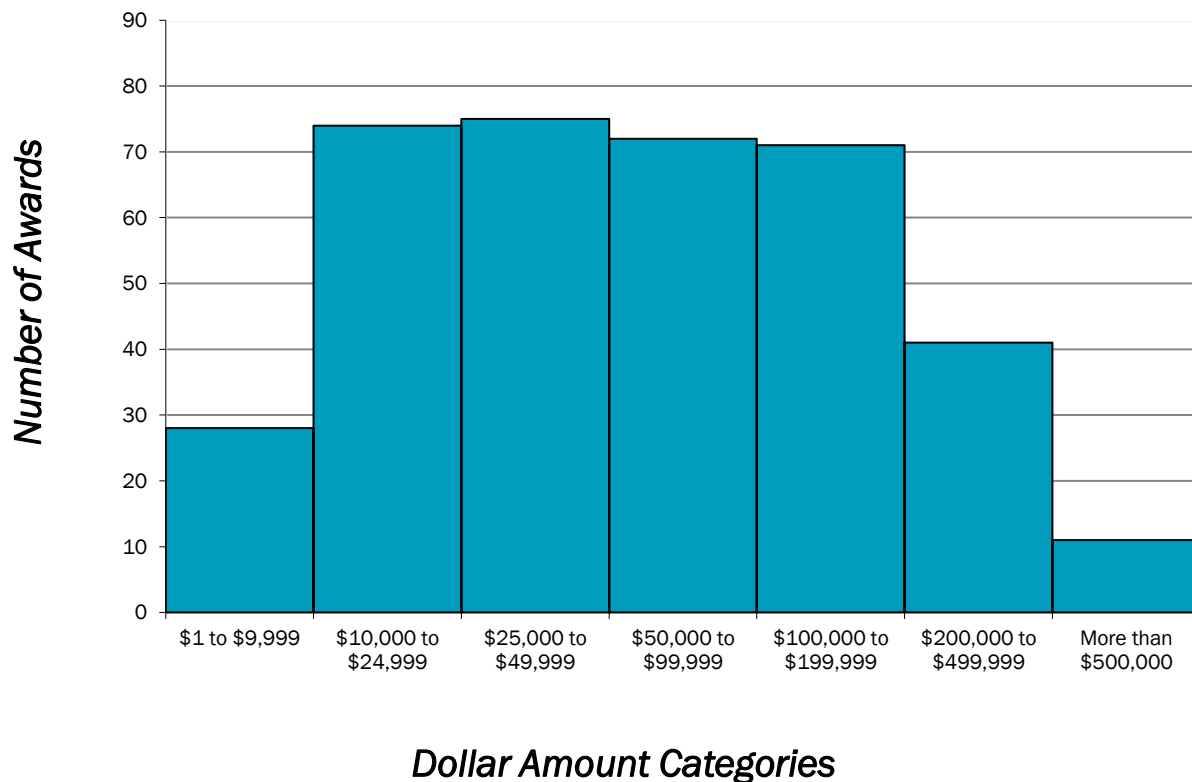
# External Funds by Source-2023

Source	Amount	% of Total
Federal	\$16,757,384	43%
Federal Subcontracts	\$12,790,861	32%
State	\$1,564,279	4%
Private/Other	\$8,403,643	21%
<i>Total Funding</i>	<i>\$39,516,167</i>	<i>100%</i>

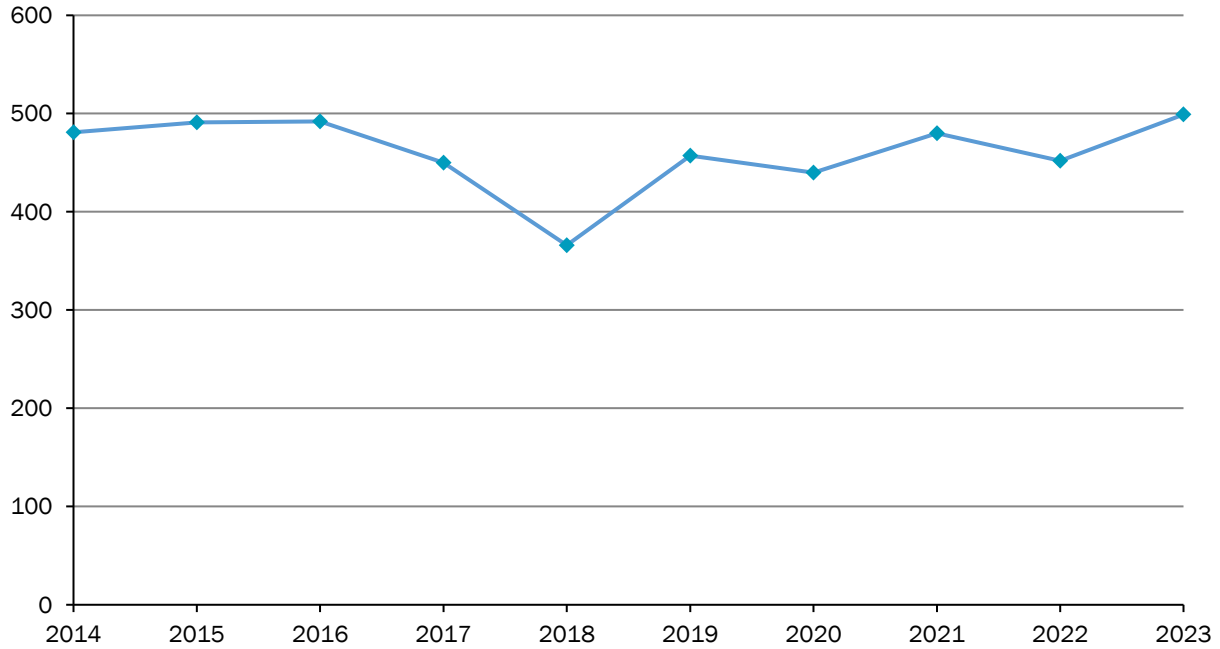


# Awards by Amount-2023

Dollar Amount Categories	# of Awards	% of Total Awards by #	\$ Awards	% of Total Awards by \$ Amount
\$1 to \$9,999	28	8%	\$165,982	0.4%
\$10,000 to \$24,999	74	20%	\$1,187,786	3%
\$25,000 to \$49,999	75	20%	\$2,739,833	7%
\$50,000 to \$99,999	72	19%	\$5,063,074	13%
\$100,000 to \$199,999	71	19%	\$10,735,853	27%
\$200,000 to \$499,999	41	11%	\$12,267,830	31%
More than \$500,000	11	3%	\$7,355,809	19%
Totals	372	100%	\$39,516,167	100%

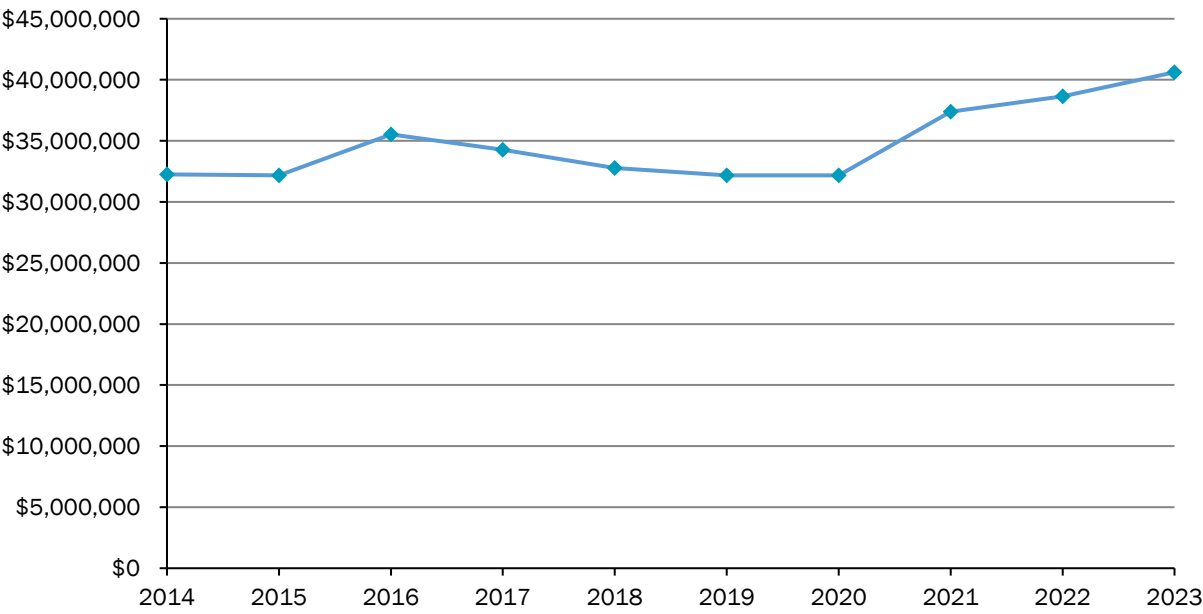


# Proposals Submitted



# Total Award Expenditures

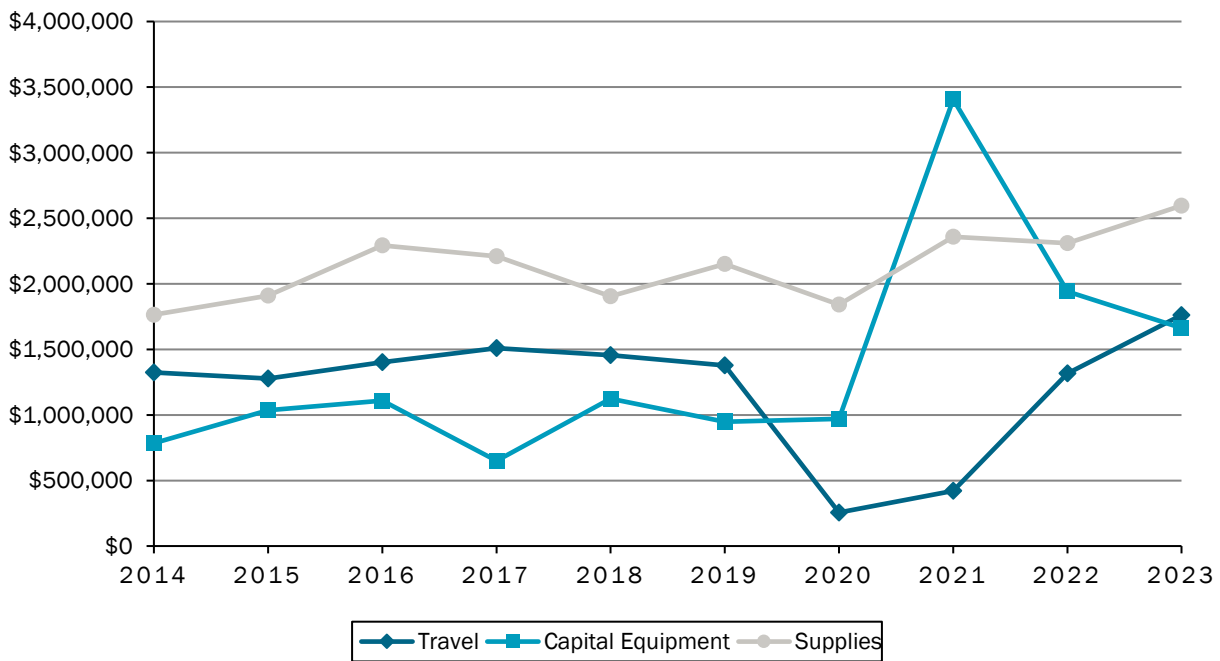
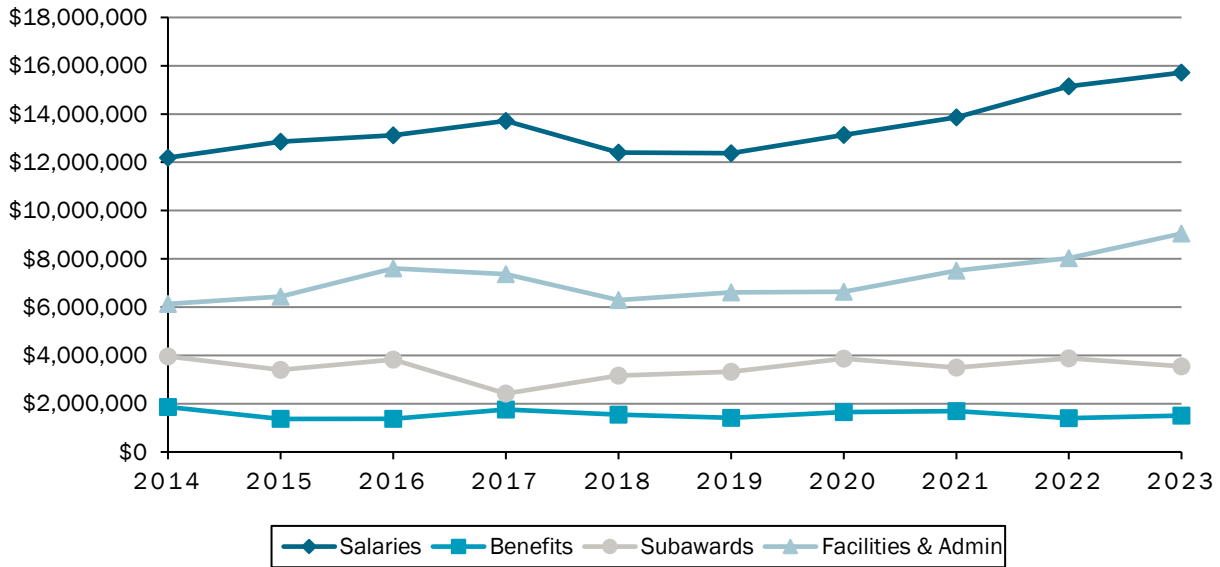
Year	Total Expenditures
2014	\$32,258,073
2015	\$32,177,342
2016	\$35,537,915
2017	\$34,278,900
2018	\$32,772,780
2019	\$32,177,733
2020	\$32,182,706
2021	\$37,401,138
2022	\$38,647,126
2023	\$40,618,606



# 2023 Award Expenditures by Category

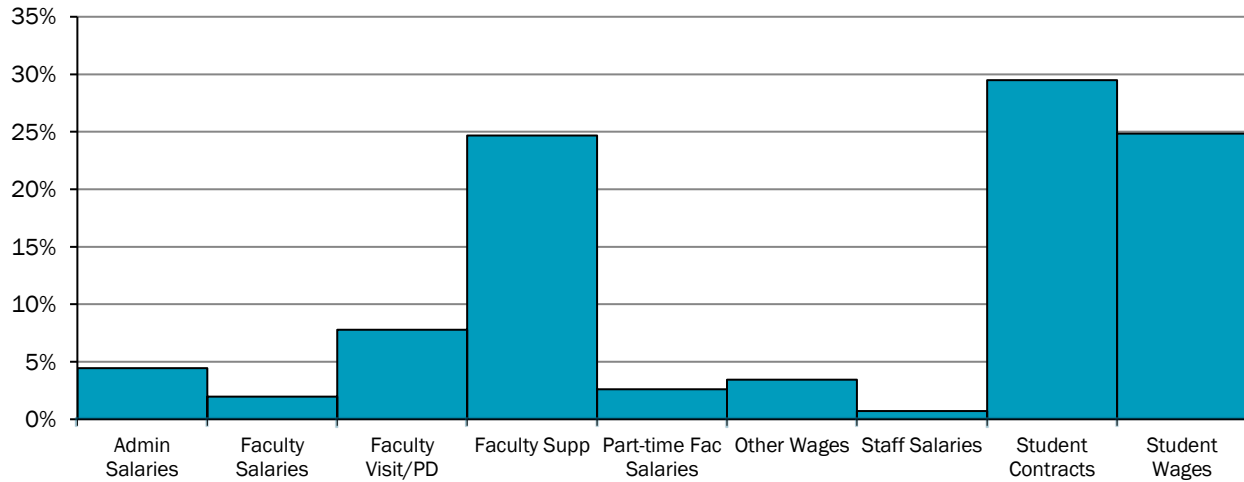
<i><b>Personnel Costs</b></i>	<i><b>Amount</b></i>
<i><b>Salaries &amp; Wages</b></i>	
Admin Salaries	\$595,330
Faculty Salaries	315,376
Visiting Faculty/Post Doctoral Researcher Salaries	1,332,638
Faculty Spring Summer/Supplemental Salaries	3,990,129
Other Wages	356,939
Part-time Faculty Salaries	196,987
Staff Salaries	2,080
Student Contracts	4,893,779
Student Wages	4,030,652
<i><b>Total Salaries &amp; Wages</b></i>	<i><b>\$15,713,909</b></i>
Fringe Benefits	\$1,513,020
<i><b>Total Personnel Cost</b></i>	<i><b>\$17,226,929</b></i>
<i><b>Other Expenditures</b></i>	
Access Equipment	16,725
Advertising and Promotion	820
Capital Equipment	1,662,959
Conference & Symposium Costs	5,858
Consultants	346,707
Contract Services	697,030
Employee Development/Training	105,607
Equipment Maintenance	57,307
Facilities & Administration	9,047,478
Facilities Remodel	2,629
Hosting, Food, Entertainment	46,681
Non-Capital Equipment	25,970
Participant Support	483,291
Postage and Mailing	25,768
Printing and Copying	5,862
Program Income	(800)
Purchase Discounts Earned	(39)
Rental Expense	90,046
Research Fellowships	14,286
Research Publications Costs	49,609
Software Acquisitions/Support	67,395
Software Maintenance	16,993
Student Aid	2,409,294
Subawards	3,549,648
Supplies	2,596,119
Telecommunications	2,929
Travel	1,761,310
Uniforms/Costumes/Laundry	445
<i><b>Total Other Expenditures</b></i>	<i><b>\$23,391,667</b></i>
<i><b>Total Research Expenditures</b></i>	<i><b>\$40,618,606</b></i>

# Award Dollars Expended

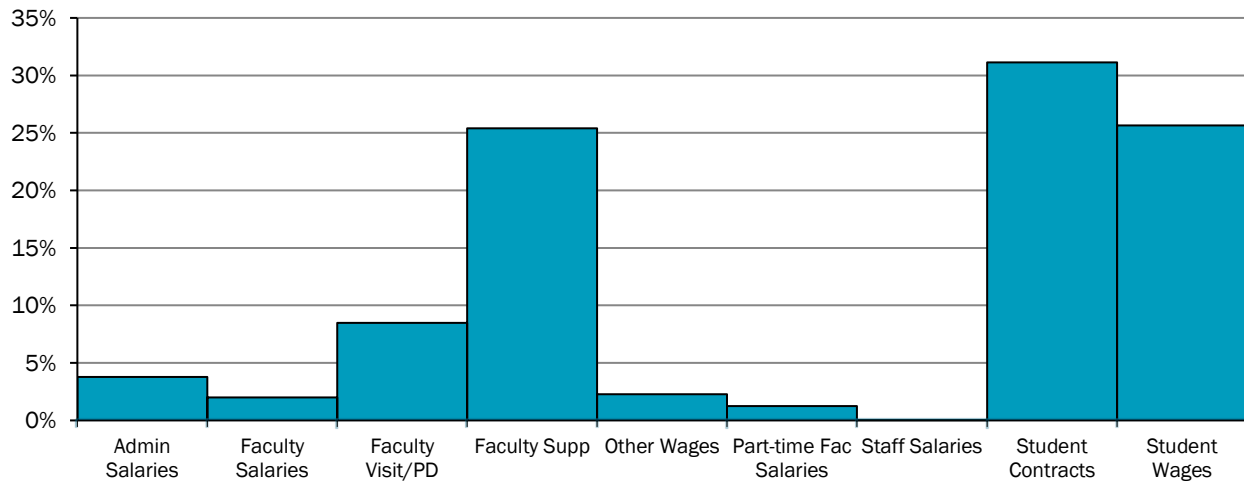




2022 Salaries and Wages Expenditures  
Total: \$15,147,174



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



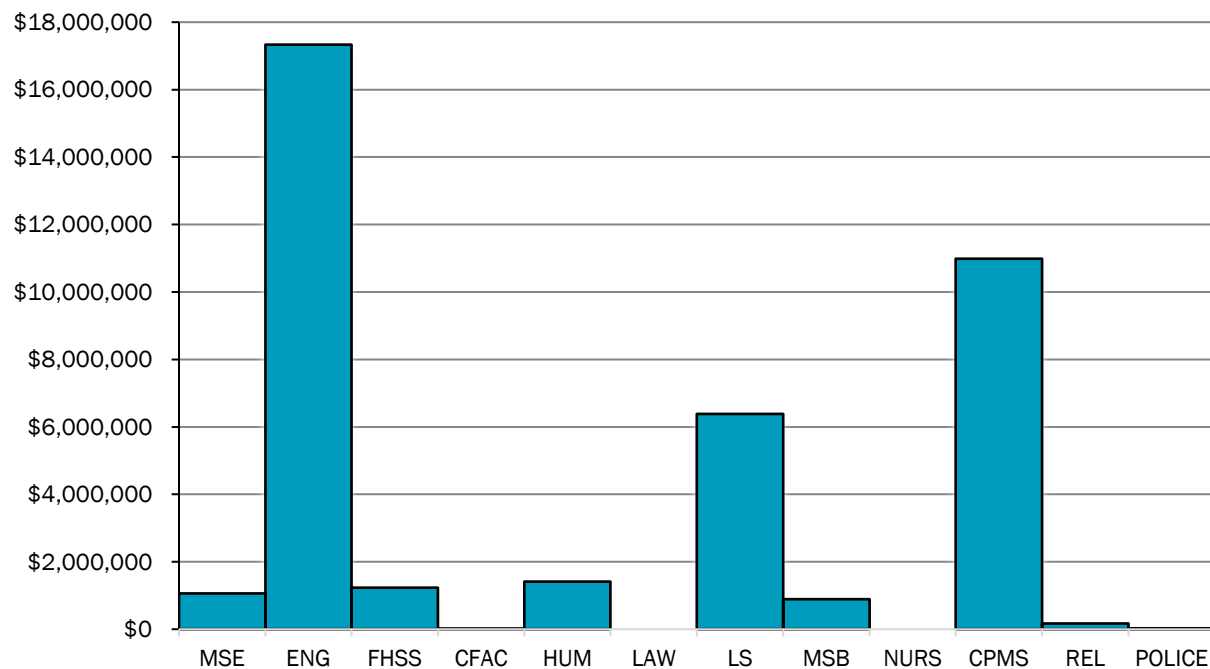
# INFORMATION BY COLLEGE OR SCHOOL



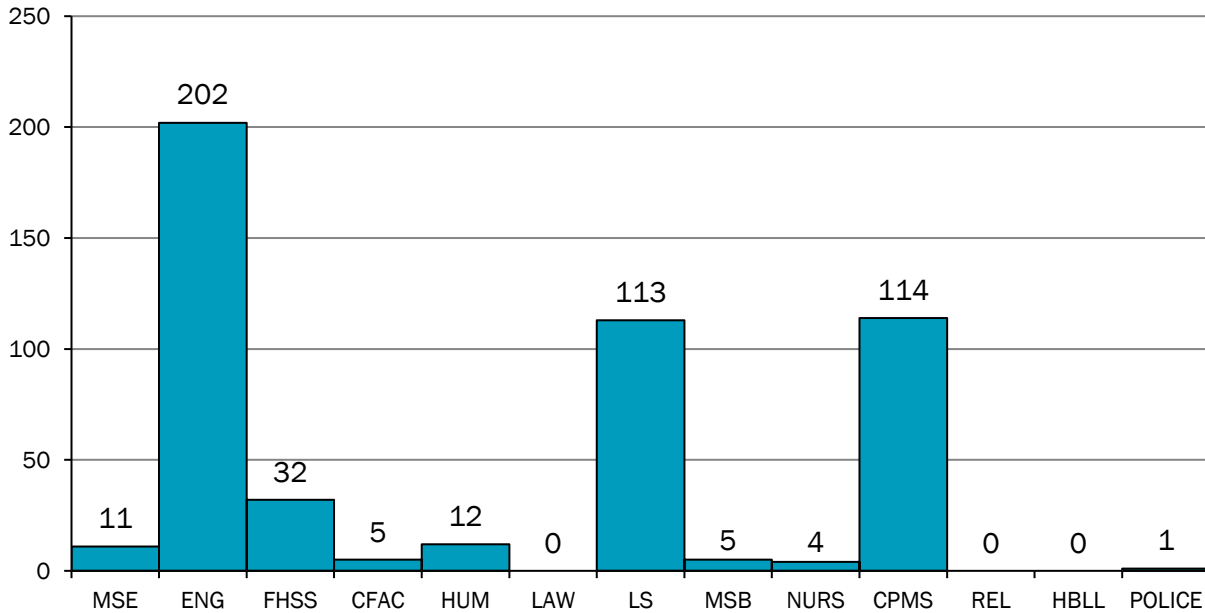


# Total Awards by College

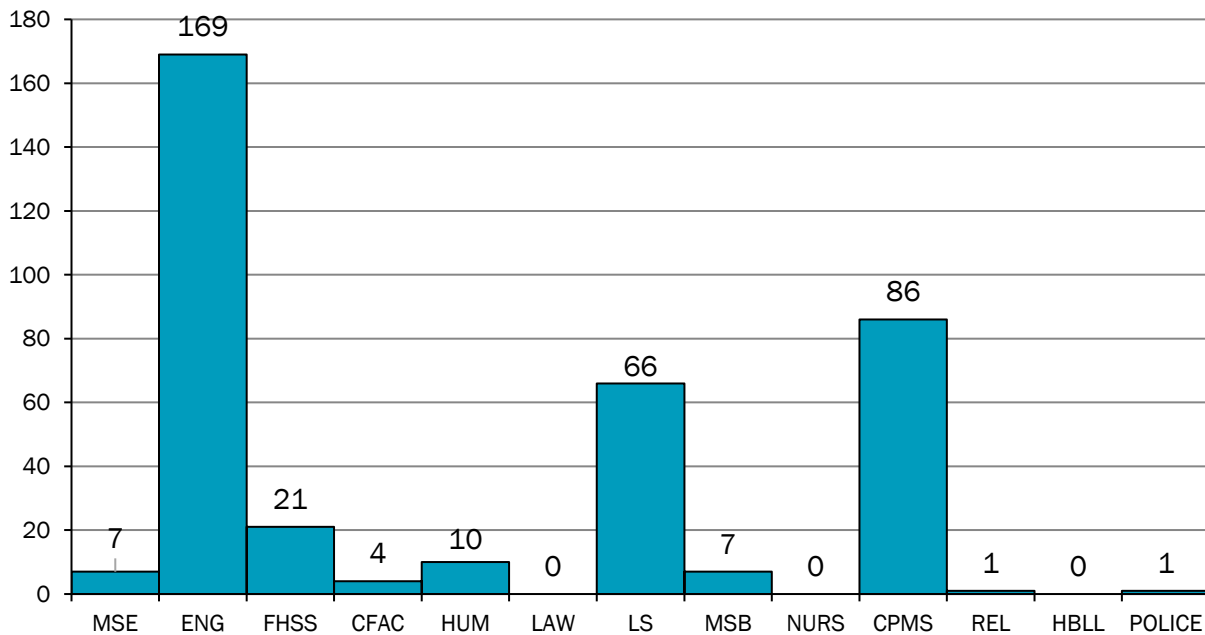
<i>College or School</i>	<i>Total</i>
David O. McKay School of Education	\$1,061,488
Ira A. Fulton College of Engineering	\$17,336,185
College of Family, Home & Social Sciences	\$1,227,916
College of Fine Arts & Communications	\$21,700
College of Humanities	\$1,410,515
J. Reuben Clark Law School	\$0
College of Life Sciences	\$6,386,579
Marriott School of Business	\$889,730
College of Nursing	\$0
College of Physical & Mathematical Sciences	\$10,985,991
Religious Education	\$166,063
Harold B. Lee Library	\$0
BYU Police	\$30,000
<b>University Total</b>	<b>\$39,516,167</b>



# Number of Proposals-2023



# Number of Awards-2023



# 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	\$520,134
Communication Disorders	\$0
Counseling, Psychology, & Special Education	\$144,900
Education Leadership & Foundations	\$74,484
Instructional Psychology & Technology	\$306,970
Teacher Education	\$15,000
<b>TOTAL</b>	<b>\$1,061,488</b>
<u>Ira A. Fulton College of Engineering</u>	
Chemical Engineering	\$3,259,506
Civil & Construction Engineering	\$3,556,663
Electrical & Computer Engineering	\$5,063,790
Manufacturing Engineering	\$883,370
Mechanical Engineering	\$4,422,227
Dean's Office	\$150,629
<b>TOTAL</b>	<b>\$17,336,185</b>
<u>College of Family, Home, &amp; Social Sciences</u>	
Anthropology	\$0
Economics	\$224,078
Geography	\$65,515
History	\$507,365
Museum of Peoples & Cultures	\$0
Political Science	\$0
Psychology	\$66,123
School of Family Life	\$195,832
School of Social Work	\$156,805
Sociology	\$12,198
<b>TOTAL</b>	<b>\$1,227,916</b>
<u>College of Fine Arts &amp; Communications</u>	
Art	\$10,500
Bravo	\$6,900
Communications	\$4,300
Dance	\$0
Design	\$0
Museum of Art	\$0
School of Music	\$0
Theatre & Media Arts	\$0
<b>TOTAL</b>	<b>\$21,700</b>



College of Humanities

Asian & Near East Languages	\$763,489
Comparative Arts & Letters	\$381,895
English	\$34,930
French & Italian	\$0
German & Russian	\$0
Linguistics	\$191,297
Philosophy	\$0
Spanish & Portuguese	\$38,904

**TOTAL** \$1,410,515

College of Life Sciences

Biology	\$2,286,599
Cell Biology & Physiology	\$960,186
Exercise Science	\$324,540
Microbiology & Molecular Biology	\$728,291
Monte Bean Life Science Museum	\$35,000
Nutrition, Dietetics, & Food Science	\$306,882
Plant & Wildlife Sciences	\$1,563,152
Public Health	\$181,929

**TOTAL** \$6,386,579

Marriott School of Business

Ballard Center for Social Impact	\$0
Experience Design & Management	\$0
Finance & Managerial Economics	\$0
Global Management Center	\$290,466
Information Systems	\$270,600
Management	\$0
Marketing & Global Supply Chain	\$0
Romney Institute of Public Management	\$328,664
School of Accountancy	\$0

**TOTAL** \$889,730

Religious Education

Ancient Scriptures	\$0
Church History & Doctrine	\$166,063

**TOTAL** \$166,063

College of Physical & Mathematical Sciences

Chemistry & Biochemistry	\$5,458,411
Computer Science	\$1,205,650
Geology	\$466,114
Mathematics	\$182,056
Mathematics Education	\$44,000
Physics & Astronomy	\$3,355,586
Statistics	\$274,174

**TOTAL** \$10,985,991

BYU Police

**TOTAL** \$30,000

**Grand Total** **\$39,516,167**

# DAVID O. MCKAY SCHOOL OF EDUCATION



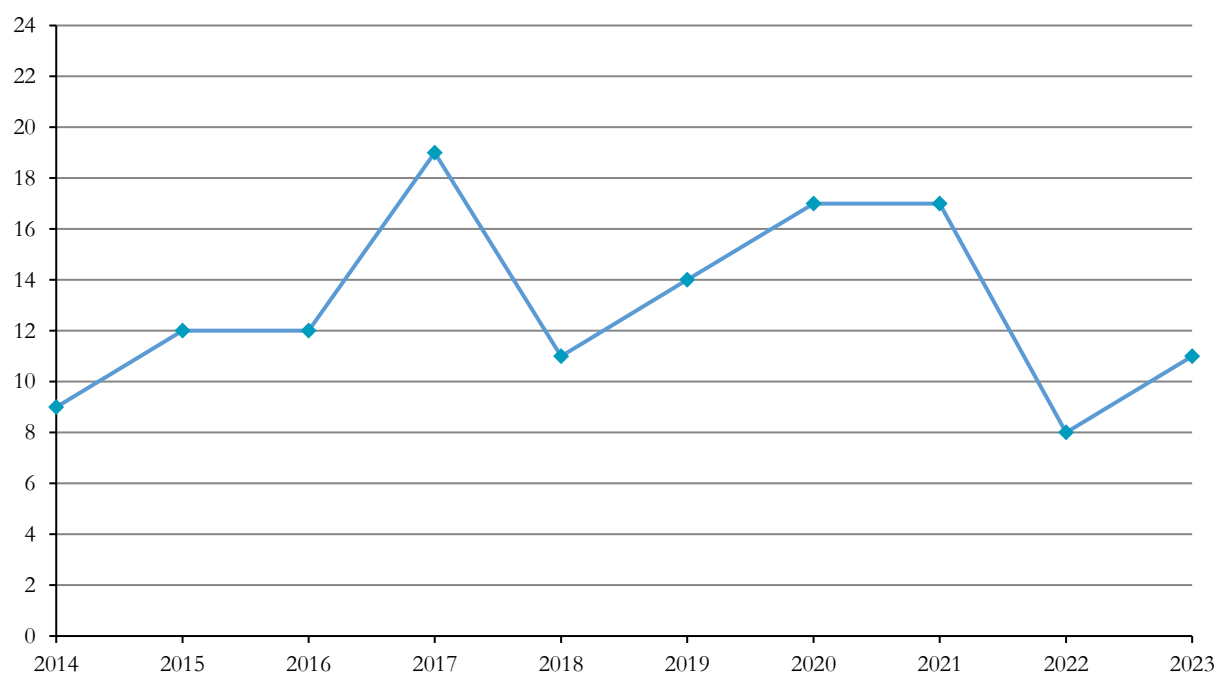


# Summary by Departments

Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards*	Dollars Awarded*
Center for Improvement of Teacher Education & Schooling	1	2	4	\$520,134
Communication Disorders	1	1	0	\$0
Counseling, Psychology, & Special Education	1	1	1	\$144,900
Educational Leadership & Foundations	0	0	1	\$74,484
Instructional Psychology & Technology	4	5	0	\$306,970
Teacher Education	2	2	1	\$15,000
<b>TOTALS</b>	<b>9</b>	<b>11</b>	<b>7</b>	<b>\$1,061,488</b>

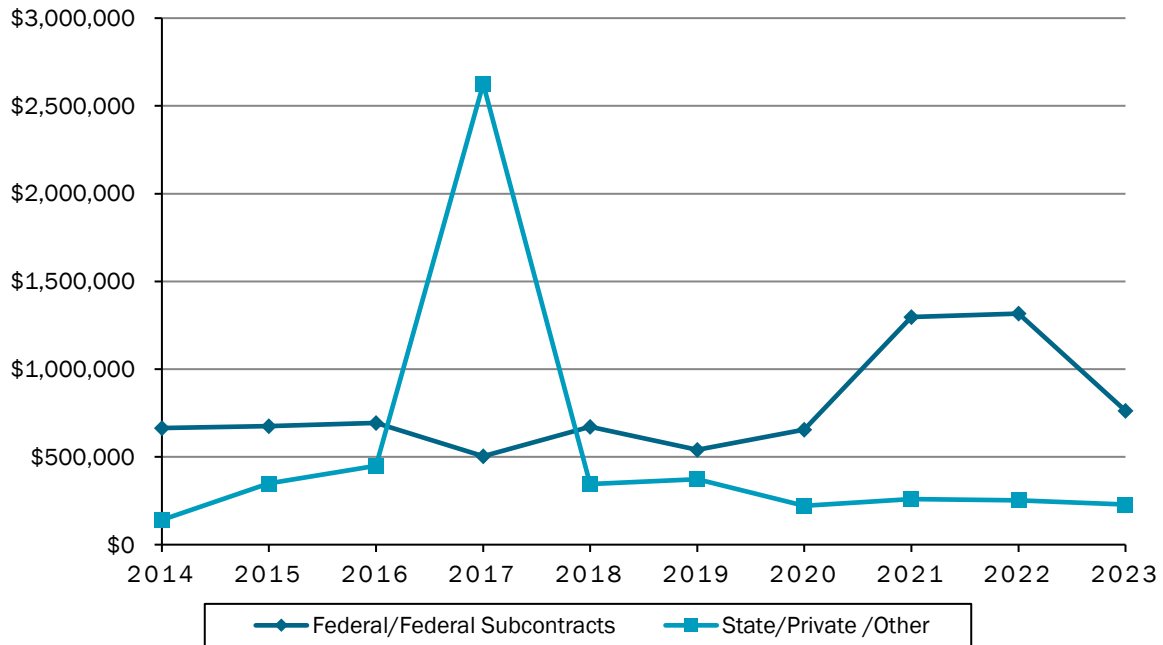
\*Number of Awards are counted by PI only, while total Dollars Awarded is split between all researchers

## Proposal Submissions



# Awards by Sources

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private /Other	
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
2023	\$762,272	\$299,216	\$1,061,488



# David O. McKay School of Education 2023 Awards

Researcher	Role	Sponsor	Prime Sponsor	Title	Beg Date	End Date	Account	Amount
<b>Center for Improvement of Teacher Ed. &amp; Schooling</b>								
Caldarella, Paul	PI	University of Kansas	Department of Education	Initial Efficacy Evaluation of the CW-FIT Middle School Program: Improving Academic Engagement	Jan-21	Jun-24	R0302988	\$170,918
Flox, Cally	PI	Utah State Board of Education		BTSALP Grant Application 2022-23	Jul-22	Jun-23	R0402390	\$23,530
Flox, Cally	PI	National Endowment for the Arts		NEA 2023-2025 Native American Curriculum Initiative	Jul-23	Jun-25	R0202597	\$65,000
Flox, Cally	PI	Utah State Board of Education		BTSALP Grant Application 2023-24	Jul-23	Jun-24	R0402400	\$260,686
<b>Counseling, Psychology, &amp; Special Education</b>								
Gabrielsen, Terisa	PI	Utah State Board of Education	Department of Education	Turning the Tide Growing Utah's School Psychologist Workforce	Jul-23	Jun-25	R0303181	\$72,450
Winters, Rebecca	COI	Utah State Board of Education	Department of Education	Turning the Tide Growing Utah's School Psychologist Workforce	Jul-23	Jun-25	R0303181	\$72,450
<b>Education Leadership &amp; Foundations</b>								
Hallam, Pamela	PI	Michigan State	National Institutes of Health	Protecting Teacher's Voices: Investigating Risk Factors, Conducting Analysis	May-21	Dec-23	R0302986	\$74,484
<b>Instructional Psychology &amp; Technology</b>								
Leary, Heather	COI	National Science Foundation		Developing Three-dimensional Science Teachers in Underserved Rural Settings	Sep-21	Aug-25	R0112460	\$205,065
Leary, Heather	COI	National Science Foundation		Developing the Pedagogical Skills and Science Expertise of Teachers in Underserved Rural Settings	Sep-21	Aug-25	R0112461	\$66,975
McDonald, Jason	COI	Idaho National Laboratory	Department of Energy	Immersive Problem-Based Simulations for Beartooth Digital Twin	May-23	Jan-24	R0303146	\$9,293
McDonald, Jason	COI	Idaho National Laboratory	Department of Energy	Immersive Problem-Based Simulations for Beartooth Digital Twin	May-23	Jan-24	R0303146	\$25,637
<b>Teacher Education</b>								
Jensen, Bryant	PI	The Garbett Family Foundation		Supporting Teacher Collaborative Learning to Enact Equitable Math Teaching in Rural Mexico	Jan-23	Dec-24	R0502390	\$15,000



# **IRA A. FULTON COLLEGE OF ENGINEERING**



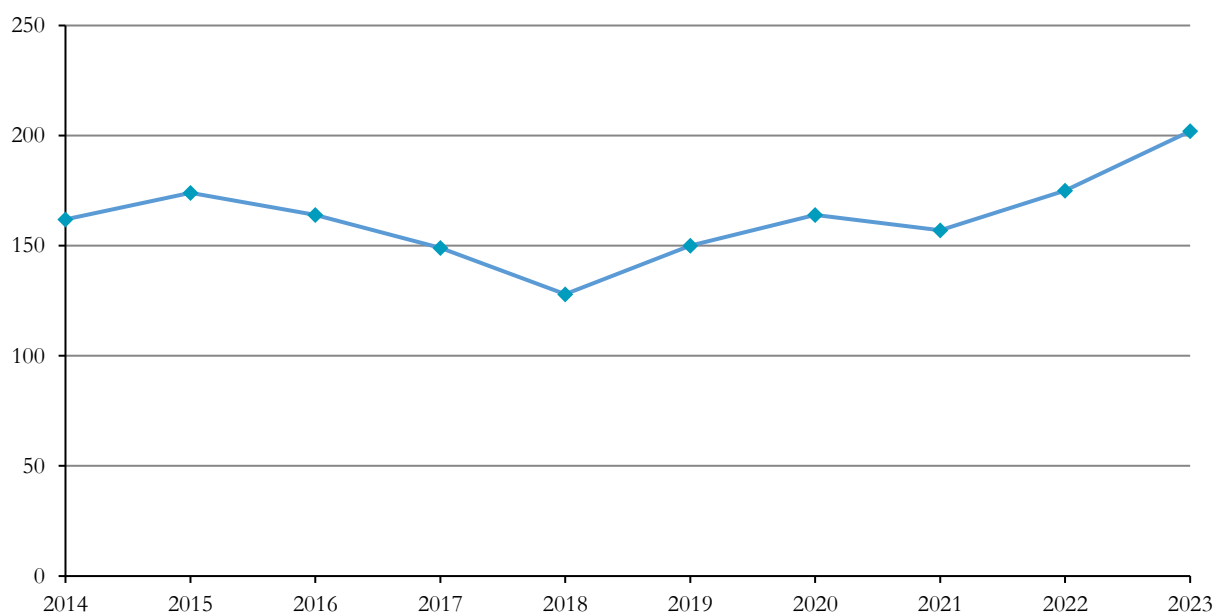


# Summary by Departments

Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards*	Dollars Awarded*
Chemical Engineering	9	29	16	\$3,259,506
Civil & Construction Engineering	14	32	30	\$3,556,663
Electrical & Computer Engineering	22	57	60	\$5,063,790
Manufacturing Engineering	6	8	12	\$883,370
Mechanical Engineering	30	76	50	\$4,422,227
Dean's Office	0	0	1	\$150,629
<b>TOTALS</b>	<b>81</b>	<b>202</b>	<b>169</b>	<b>\$17,336,185</b>

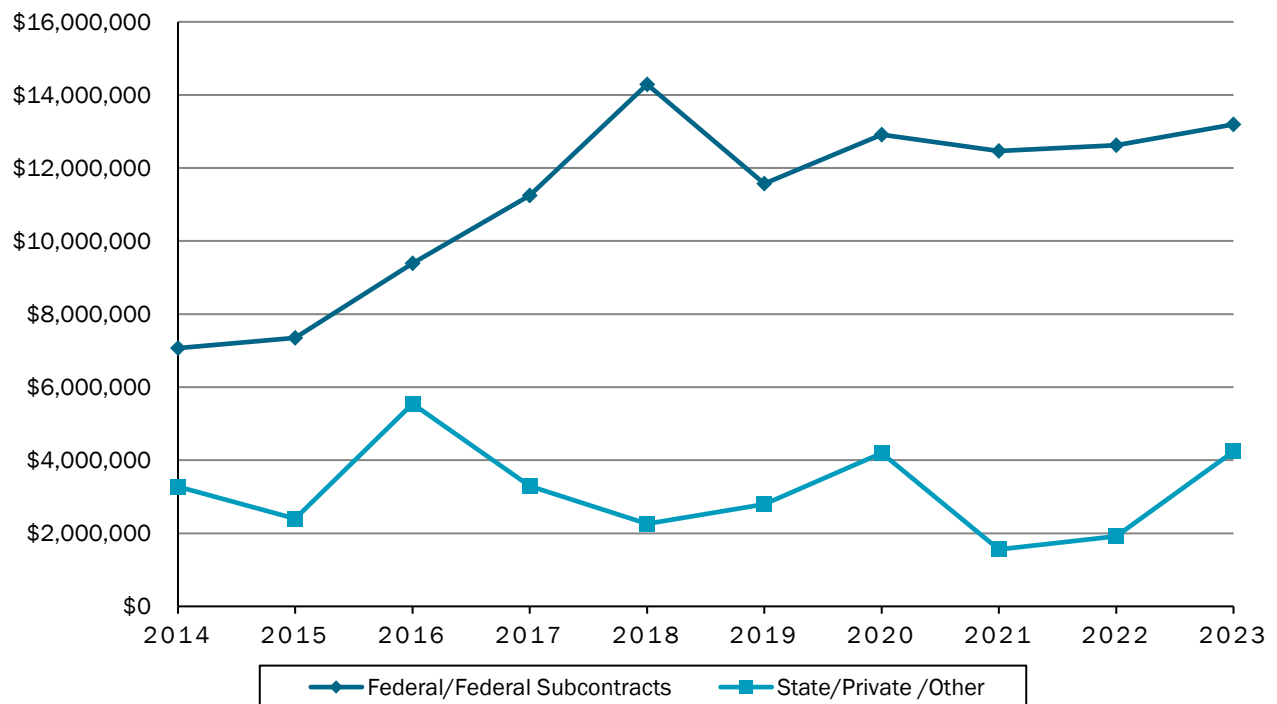
\*Number of Awards are counted by PI only, while total Dollars Awarded is split between all researchers

## Proposal Submissions



# Awards by Sources

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private /Other	
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
2023	\$13,188,599	\$4,147,586	\$17,336,185



# Ira A. Fulton College of Engineering 2023 Awards

Researcher	Role	Sponsor	Prime Sponsor	Title	Beg Date	End Date	Account	Amount
<b>Chemical Engineering</b>								
Baxter, Larry	PI	Department of Energy		Integrated University Program-Braden Clayton Fellowship	Sep-23	Sep-24	R0202587	\$10,000
Baxter, Larry	PI	Department of Energy		Integrated University Program-Samuel Sasser Fellowship	Sep-23	Sep-24	R0202588	\$10,000
Baxter, Larry	PI	Department of Energy		Integrated University Program-Tyler Williams Fellowship	Sep-23	Sep-26	R0202589	\$169,000
Fry, Andrew	PI	Ample Carbon		Combustion Testing in Support of Conversion of Coal-fired Utility Boilers to Biomass Combustors	Apr-23	Mar-25	R0602708	\$117,550
Fry, Andrew	COI	Cimarron	Department of Energy	Flare and Control for Ultra High Destruction and Removal Efficiency	Apr-22	Dec-23	R0303063	\$7,499
Fry, Andrew	COI	Cimarron	Department of Energy	Flare and Control for Ultra High Destruction and Removal Efficiency	Apr-22	Feb-24	R0303063	\$5,999
Hedengren, John	PI	Pacific Northwest National Laboratory	Department of Energy	Optimization of Waste Vitrification Under Uncertainty	Jan-23	Sep-25	R0303140	\$174,000
Knotts, Thomas	PI	American Institute of Chemical Engineers		DIPPR 801	Jan-18	Dec-23	R0602557	\$388,550
Lignell, David	COI	Cimarron	Department of Energy	Flare and Control for Ultra High Destruction and Removal Efficiency	Apr-22	Dec-23	R0303063	\$7,499
Lignell, David	COI	Cimarron	Department of Energy	Flare and Control for Ultra High Destruction and Removal Efficiency	Apr-22	Feb-24	R0303063	\$5,999
Rappleye, Devin	PI	Savannah River National Lab	Department of Energy	Technical Exchange on Pyrochemical Processing	Jan-21	Feb-24	R0303046	\$49,996
Rappleye, Devin	PI	Lawrence Livermore National Labs	Department of Energy	Development of In-situ Chlorine Generation for Metal Purification	Mar-23	Sep-23	R0303144	\$160,538
Rappleye, Devin	PI	Lawrence Livermore National Labs	Department of Energy	Improvements on Electrowinning Using Surrogates	Mar-23	Sep-23	R0303147	\$156,078
Rappleye, Devin	PI	Pacific Northwest National Laboratory	Department of Energy	Joint Appointment with Pacific Northwest National Laboratory	Apr-23	Mar-24	R0303155	\$75,000
Rappleye, Devin	PI	Department of Energy		Development of a Thin-Layer Electrochemical Sensor for Molten Salt Reactors and Fuel Cycle Processes	Oct-23	Sep-26	R0202595	\$676,755
Rappleye, Devin	PI	Lawrence Livermore National Labs	Department of Energy	Development of In-Situ Chlorine Generation for Metal Purification	Oct-23	Sep-24	R0303185	\$174,601
Rappleye, Devin	PI	Lawrence Livermore National Labs	Department of Energy	Preliminary Optimization of Electrowinning Using Surrogates	Oct-23	Sep-24	R0303186	\$178,226

Rappleye, Devin	PI	Pacific Northwest National Laboratory	Department of Energy	Research and Development to Support Advancements in Pyrochemical Processing of Plutonium	Nov-23	Oct-24	R0303200	\$181,968
Rappleye, Devin	PI	TechSource, Inc.	Department of Energy	Pyrochemical and Soft Matter Theory Research	Jan-24	Dec-24	R0303208	\$150,000
Seo, DongJin	PI	Alpha Tech Research Corp		Preliminary Experiments for Feasibility to Implement Xenon Chamber Experiment for Measuring Molten Salt-Xenon Surface Tension	Jan-23	Mar-23	R0602705	\$21,698
Tree, Douglas	COI	TechSource, Inc.	Department of Energy	Pyrochemical and Soft Matter Theory Research	Jan-24	Dec-24	R0303208	\$150,000
Wilding, Vince	COI	American Institute of Chemical Engineers		DIPPR 801	Jan-18	Dec-23	R0602557	\$388,550

#### ***Civil & Construction Engineering***

Ames, Dan	COI	National Aeronautics and Space Administration		Advancing the NASA GEOGloWS Toolbox for Regional Water Resources Management and Decision Support	Apr-22	Apr-25	R0162044	\$43,750
Ames, Dan	PI	The University of Alabama	National Oceanic & Atmospheric Administration	National Cyberinfrastructure Framework for Engaging the Hydrologic Community (NCF) – CIROH	Aug-22	Jul-24	R0303092	\$146,578
Ames, Dan	COI	National Aeronautics and Space Administration		Advancing the NASA GEOGloWS Toolbox for Regional Water Resources Management and Decision Support	Apr-22	Apr-25	R0162044	\$16,028
Ames, Dan	PI	The University of Alabama	National Oceanic & Atmospheric Administration	CIROH: The NWM Research Apps Portal – A One-Stop-Shop Catalog of R20 Web Applications	Jun-23	May-24	R0303184	\$217,828
Ames, Dan	PI	Aquaveo LLC	National Science Foundation	POSE: Phase II: Establishing an Open-Source Ecosystem for Tethys Platform	Sep-23	Sep-24	R0303207	\$139,460
Franke, Kevin	PI	National Science Foundation		REU Supplement to BRITE Pivot: Towards Intelligent Health Monitoring, Inspection, and Reconnaissance of Critical Infrastructure using Autonomous Robots	Jan-22	Dec-24	R0112513	\$8,000
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	\$18,998
Guthrie, Spencer	COI	Utah Department of Transportation		Laboratory Evaluation of Fresh and Hardened Concrete Comprising Portland-Pozzolan Cement	Mar-23	Oct-24	R0402397	\$20,004
Guthrie, Spencer	PI	Utah Department of Transportation		Durability of Lightweight Concrete Bridge Decks	Mar-23	Apr-24	R0402398	\$40,000
Hotchkiss, Rollin	PI	Nebraska Department of Transportation		Drainage Area Limitations for NDOT Hydrologic Computations	Jul-23	May-25	R0470021	\$114,528
Hotchkiss, Rollin	PI	US Army Corps of Engineers		Understanding Reservoir Sedimentation Sources and Economics in the Kansas River Basin for the U.S. Army Corps of Engineers – Kansas City District	Sep-23	Sep-25	R0202596	\$316,000



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	\$43,750
Jones, Norm	COI	The University of Alabama	National Oceanic & Atmospheric Administration	National Cyberinfrastructure Framework for Engaging the Hydrologic Community (NCF) – CIROH	Aug-22	Jul-24	R0303092	\$146,578
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	\$16,028
Jones, Norm	PI	The University of Alabama	National Oceanic & Atmospheric Administration	CIROH: Advancing Science to Better Characterize Drought and Groundwater-Driven Low-Flow Conditions in NOAA and USGS National-Scale Models	Jun-23	May-24	R0303191	\$97,921
Judd, Johnn	PI	Metal Building Manufacturers Association		Inelastic behavior of roof diaphragms with rod bracing in metal building systems	Jun-23	Dec-24	R0502392	\$72,000
Judd, Johnn	PI	Timber Frame Engineering Council/Timber Framers Guild		Shear Strength of Timber Beams with Tapered Beam Ends	Nov-23	Feb-25	R0602727	\$15,000
Macfarlane, Gregory	PI	Utah Department of Transportation		Activity Based Model Analysis Consideration	Feb-23	Jun-24	R0402396	\$54,000
Macfarlane, Gregory	PI	Wasatch Front Regional Council	Utah Department of Transportation	Activity-based Model Implementation and Analysis Considerations	Apr-23	Jun-24	R0402399	\$12,000
Miller, Woodruff	COI	Timpanogos Special Services District	State of Utah	Utah Lake Nutrient Cycling Studies: Phase II	Mar-22	Jun-24	R0402382	\$198,745
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-23	R0303042	\$24,750
Nelson, Jim	PI	National Aeronautics and Space Administration		Advancing the NASA GEOGloWS Toolbox for Regional Water Resources Management and Decision Support	Apr-22	Apr-25	R0162044	\$43,750
Nelson, Jim	COI	The University of Alabama	National Oceanic & Atmospheric Administration	National Cyberinfrastructure Framework for Engaging the Hydrologic Community (NCF) – CIROH	Aug-22	Jul-24	R0303092	\$146,578
Nelson, Jim	PI	The University of Alabama	National Oceanic & Atmospheric Administration	CIROH: A Collaborative Approach to Develop Comprehensive FIM Data, Models, and Methods with Emphasis on Transportation Infrastructure supported by Bipartisan Infrastructure Law (BIL) funding	Jun-23	May-24	R0303177	\$429,181
Nelson, Jim	PI	National Aeronautics and Space Administration		Advancing the NASA GEOGloWS Toolbox for Regional Water Resources Management and Decision Support	Apr-22	Apr-25	R0162044	\$16,028
Nelson, Jim	COI	University of Houston	Department of Commerce	The Continuation of The Cooperative Institute for Meteorological Satellite Studies (CIMSS) at the University of Wisconsin-Madison	Aug-21	Jun-24	R0303042	\$24,750
Richards, Paul	PI	DuraFuse Frames		Cyclic Behavior of Structural Fuses for Seismic Applications	Jan-24	Dec-24	R0602728	\$50,000

Rollins, Kyle	PI	US Geological Survey		Evaluation and Improvement of Methods to Consider Influence of Surface Clay Layers on Liquefaction-Induced Settlement from Large Database	Jun-22	Jun-24	R0202574	\$68,662
Schultz, Grant	PI	Utah Department of Transportation		SPF Development and Research	Jan-23	Sep-23	R0402394	\$13,000
Schultz, Grant	PI	Avenue Consultants, Inc.	Utah Department of Transportation	Effect of Lighting on Safety in Utah Roadways	Dec-22	Jun-24	R0402395	\$28,000
Schultz, Grant	PI	Utah Department of Transportation		Using Unmanned Aircraft Systems to Facilitate Traffic Incident Management	Oct-23	Mar-25	R0402402	\$50,000
Schultz, Grant	PI	Utah Department of Transportation		Implementing Safe Systems at Intersections in Utah	Oct-23	Mar-25	R0402403	\$64,999
Shepherd, Kendrick	PI	National Science Foundation		CRII: OAC: Improved Cyberinfrastructure Usage through High-Fidelity Isogeometric Volumetric Spline Model Generation	Sep-23	Aug-25	R0112519	\$174,996
Sorensen, Taylor	PI	Wire Reinforcement Institute		Tensile Strain Validation of Welded-Wire Reinforcement	Sep-22	Aug-23	R0602692	\$3,636
Sorensen, Taylor	PI	Utah Department of Transportation		Laboratory Evaluation of Fresh and Hardened Concrete Comprising Portland-Pozzolan Cement	Mar-23	Oct-24	R0402397	\$20,004
Sowby, Robert	PI	University of Colorado, Boulder	Deloitte Touche Tohmatsu Limited	Carbon Credits for Drinking Water Source Protection	Dec-22	Apr-24	R0602704	\$49,663
Sowby, Robert	PI	Utah Topsoil & Hauling Co.		Application of Volcanic Rocks for Stormwater Treatment	May-23	Dec-24	R0602711	\$24,950
Sowby, Robert	PI	Utah State University	US Geological Survey	Enhancing Urban Irrigation Analysis in Utah with Remote Sensing	Sep-23	Aug-24	R0303187	\$34,000
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-23	R0303042	\$24,750
Williams, Gus	PI	Timpanogos Special Services District	State of Utah	Utah Lake Nutrient Cycling Studies: Phase II	Mar-22	Jun-24	R0402382	\$198,745
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	\$43,750
Williams, Gus	COI	The University of Alabama	National Oceanic & Atmospheric Administration	National Cyberinfrastructure Framework for Engaging the Hydrologic Community (NCF) – CIROH	Aug-22	Jul-24	R0303092	\$146,578
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	\$16,028
Williams, Gus	PI	University of Houston	Department of Commerce	The Continuation of The Cooperative Institute for Meteorological Satellite Studies (CIMSS) at the University of Wisconsin-Madison	Aug-21	Jun-24	R0303042	\$24,750
Williams, Gus	COI	The University of Alabama	National Oceanic & Atmospheric Administration	CIROH: Advancing Science to Better Characterize Drought and Groundwater-Driven Low-Flow Conditions in NOAA and USGS National-Scale Models	Jun-23	May-24	R0303191	\$97,921

<b><i>Dean's Office</i></b>								
Bartholomew, Scott	PI	Purdue University	National Science Foundation	Learning by evaluating (LbE): Engaging students in evaluation as a pedagogical strategy to improve design thinking	Aug-21	Jul-24	R0303035	\$75,630
Wright, Geoffrey	COI	National Security Agency		Brigham Young University- GenCyber 2023 Teacher Camp	Aug-23	Aug-25	R0202600	\$53,655
Wright, Geoffrey	COI	National Security Agency		Brigham Young University- GenCyber 2023 Teacher Camp-Participant Support	Aug-23	Aug-25	R0202601	\$21,345
<b><i>Electrical and Computer Engineering</i></b>								
Allen, Steven	PI	University of Utah	National Institutes of Health	Feasibility of Transcranial Histotripsy using a Hemispherical Transducer	Apr-22	Dec-24	R0303082	\$17,393
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	National Institutes of Health		Iron Based Coupling Media (IBCM) for MRI-guided Transcranial Ultrasound Surgeries	Sep-22	Jun-24	R0102122	\$462,763
Beard, Randy	PI	CAAMS Industry Memberships		CAAMS Industry – Beard	Aug-22	Jul-27	R0602712	\$10,000
Beard, Randy	PI	National Science Foundation		IUCRC Phase I Brigham Young University: Center for Autonomous Air Mobility and Sensing (CAAMS)	Apr-22	Mar-27	R0112485	\$18,998
Beard, Randy	PI	University of Colorado, Boulder	National Science Foundation	IUCRC Phase I University of Colorado Boulder: Center for Autonomous Air Mobility and Sensing (CAAMS) – (Managing Director Funding)	Apr-22	Mar-27	R0303091	\$215,278
Beard, Randy	PI	CAAMS Industry Memberships		Safe and efficient take-off and landing algorithms for winged-VTOL aircraft	Aug-22	Jul-27	R0602723	\$50,000
Beard, Randy	PI	CAAMS Industry Memberships		Integration of System Theory with Machine Learning Tools for Data Driven System Identification	Aug-22	Jul-24	R0602712	\$10,000
Beard, Randy	PI	CAAMS Industry Memberships		Safe and efficient take-off and landing algorithms for winged-VTOL aircraft	Aug-22	Jul-24	R0602723	\$5,000
Beard, Randy	PI	CAAMS Industry Memberships		GPS denied navigation using signals of opportunity from Satellites and Cell Towers	Aug-22	Jul-24	R0602725	\$25,000
Camacho, Ryan	PI	University of Arizona	National Science Foundation	NSF Engineering Research Center for Quantum Networks (CQN)	Sep-20	Aug-23	R0303153	\$114,218
Camacho, Ryan	PI	Oak Ridge National Laboratory	Department of Energy	Continuous Variable Integrated Quantum Photonics – Supplement	Mar-21	Sep-23	R0303174	\$38,112
Camacho, Ryan	PI	University of Arizona	National Science Foundation	NSF Engineering Research Center for Quantum Networks (CQN)	Sep-20	Aug-24	R0303153	\$101,378
Chiang, Shiuh-hua Wood	COI	Oak Ridge National Laboratory	Department of Energy	Continuous Variable Integrated Quantum Photonics – Supplement	Mar-21	Sep-23	R0303174	\$38,112
Chiang, Shiuh-hua Wood	COI	Los Alamos National Laboratory	Department of Energy	Diamond Detector Readout Electronics for X-Ray Ptychography	Sep-22	Nov-24	R0303106	\$45,848
Goeders, Jeff	COI	BAE Systems, Inc.		SHREC I/UCRC Industry Membership Dues	Sep-17	Aug-23	R0602555	\$10,000

Goeders, Jeff	COI	L3Harris Technologies, Inc. Communication Systems-West		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	PI	Office of Naval Research		FPGA Bitstream-level Equivalence Checking: Securing the FPGA "Digital Fab"	Aug-22	Jul-25	R0202577	\$149,666
Goeders, Jeff	COI	Space Micro Inc.		SHREC I/UCRC Industry Membership Dues	Sep-17	Aug-24	R0602555	\$20,000
Goeders, Jeff	PI	GrammaTech	Office of Naval Research	Grammatech STTR Phase 2 – Bitstream Security	Jul-20	Aug-24	R0302955	\$16,404
Goeders, Jeff	PI	GrammaTech	Office of Naval Research	Grammatech STTR Phase 2 – Bitstream Security	Jul-20	Aug-24	R0302955	\$43,211
Goeders, Jeff	COI	Pennsylvania State University	Defense Threat Reduction Agency	Interaction of Ionizing Radiation with Matter, University Research Alliance (IIRM-URA)	Jul-20	Feb-24	R0302947	\$78,350
Goeders, Jeff	PI	Sandia National Laboratories	Department of Energy	Investigation of radiation effects and development of testing capabilities on Complex Ics in a radiation environment.	Jul-23	Dec-23	R0303175	\$5,000
Goeders, Jeff	PI	Sandia National Laboratories	Department of Energy	Investigation of radiation effects and development of testing capabilities on Complex Ics in a radiation environment.	Jul-23	Dec-23	R0303175	\$5,000
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-24	R0112389	\$13,241
Goeders, Jeff	COI	Raytheon		SHREC I/UCRC Industry Membership Dues	Sep-17	Aug-24	R0602555	\$10,000
Goeders, Jeff	PI	GrammaTech	Office of Naval Research	Grammatech STTR Phase 2 – Bitstream Security	Jul-20	Aug-24	R0302955	\$52,000
Goeders, Jeff	PI	Sandia National Laboratories	Department of Energy	Investigation of radiation effects and development of testing capabilities on Complex Ics in a radiation environment.	Jul-23	Oct-24	R0303175	\$5,000
Goeders, Jeff	PI	Sandia National Laboratories	Department of Energy	Investigation of radiation effects and development of testing capabilities on Complex Ics in a radiation environment.	Jul-23	Oct-24	R0303175	\$5,000
Hansen, Derek	PI	Idaho National Laboratory	Department of Energy	Immersive Problem-Based Simulations for Beartooth Digital Twin	May-23	Jan-24	R0303146	\$9,575
Hansen, Derek	PI	Idaho National Laboratory	Department of Energy	Immersive Problem-Based Simulations for Beartooth Digital Twin	May-23	Jan-24	R0303146	\$26,414
Hansen, Derek	PI	Sandia National Laboratories	Department of Energy	IT&C Capstone and Cybersecurity Research	Sep-23	Aug-24	R0303157	\$20,000
Hutchings, Brad	COI	BAE Systems, Inc.		SHREC I/UCRC Industry Membership Dues	Sep-17	Aug-23	R0602555	\$10,000
Hutchings, Brad	COI	L3Harris Technologies, Inc. Communication Systems-West		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-24	R0112389	\$13,241
Hutchings, Brad	COI	Raytheon		SHREC I/UCRC Industry Membership Dues	Sep-17	Aug-24	R0602555	\$10,000
Jeffs, Brian	PI	National Science Foundation		ALPACA: Advanced Cryogenic L-band Phased Array Camera for the Arecibo Radio Telescope	Jun-18	May-24	R0112385	\$413,206
Lee, D.J.	PI	Cimarron	Department of Energy	Flare and Control for Ultra High Destruction and Removal Efficiency	Apr-22	Dec-23	R0303063	\$7,727
Lee, D.J.	PI	Cimarron	Department of Energy	Flare and Control for Ultra High Destruction and Removal Efficiency	Apr-22	Feb-24	R0303063	\$6,181
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-24	R0302938	\$86,000
Long, David	PI	Care Weather Technologies, Inc.	National Science Foundation	STTR Phase I: Constellation of Nanosatellite Radars for Near-Hourly, Global Ocean Surface Vector Winds	Mar-23	Feb-24	R0303149	\$82,500
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-24	R0302938	\$7,800
Long, David	PI	Lawrence Livermore National Labs	Department of Energy	UAS Crash Recovery System for Ocean Environment	Oct-23	May-24	R0303188	\$24,000
Lundrigan, Phil	PI	Riverside Research Institute	Defense Advanced Research Projects Agency	Investigating Privacy-Preserving Techniques Using Wireless Sub-Protocols	Jun-23	Sep-24	R0303169	\$200,418
Lundrigan, Phil	PI	National Science Foundation		Collaborative Research: Ideas Lab: ETAUS Meshed Observations of THE Remote Subsurface with Heterogeneous Intelligent Platforms (MOTHERSHIP)	Sep-23	Aug-26	R0112525	\$100,000
Lundrigan, Phil	PI	Riverside Research Institute	Defense Advanced Research Projects Agency	Investigating Privacy-Preserving Techniques Using Wireless Sub-Protocols	Jun-23	Sep-24	R0303169	\$26,911
Lundrigan, Phil	COI	University of Utah Rocky Mountain Center for Occupational and Environmental Health	Centers for Disease Control and Prevention	Sustainable, Low-cost, Radon Mitigation Strategies for K-12 Schools and Employees	Jul-23	Jun-24	R0303206	\$4,365
Mangelson, Joshua	PI	Office of Naval Research		Cross-Modality Localization and Mapping	Apr-21	Apr-24	R0202552	\$184,738
Mangelson, Joshua	PI	DOD Naval Surface Warfare Center		NEEC: Active Cooperative Terrain Aided Navigation Using Inverted-USBL	May-23	May-24	R0202590	\$149,428
Mangelson, Joshua	PI	DOD Naval Surface Warfare Center		NEEC: Mixed Simulation and Reality for Testing of Multi-agent UUV Perceptual Autonomy	Sep-23	Sep-24	R0202599	\$29,755
Mangelson, Joshua	PI	Makai Ocean Engineering, Inc.	DOD Naval Sea Systems Command	Realistic UUV Data Transformation Tool	Aug-23	Jan-24	R0303210	\$41,992
Nelson, Brent	COI	BAE Systems, Inc.		SHREC I/UCRC Industry Membership Dues	Sep-17	Aug-23	R0602555	\$10,000

Nelson, Brent	COI	L3Harris Technologies, Inc. Communication Systems-West		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-24	R0602555	\$10,000
Nordin, Greg	PI	National Institutes of Health		High Density 3D Printed Microfluidics for Cell-Based Biomedical Applications	Sep-23	Aug-26	R0102131	\$148,569
Nordin, Greg	PI	University of Utah	National Science Foundation	LEAP HI MFDA	Jul-23	Jun-27	R0303182	\$150,000
Nordin, Greg	COI	National Institutes of Health		3D printed, multi-material microfluidic calorimetry: Critical tools to study protein stability	Sep-22	Aug-25	R0102124	\$3,327
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	\$18,998
Peterson, Cammy	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	\$16,000
Peterson, Cammy	PI	CAAMS Industry Memberships		Explore Now, Exploit Later: Optimal UAS Fleet Coordination for Environmental and Adversarial Threats	Aug-22	Jul-24	R0602724	\$40,000
Rice, Michael	PI	Advanced Technology International	Army	NSC-17-7000; Space-Time Coding for Multi-h CPM	Nov-17	Mar-24	R0302769	\$162,324
Schooley, Ben	PI	University of South Carolina	Agency for Health Care Research and Quality	The Development and Evaluation of a Patient-Centered Opioid Discharge Prescribing Guideline within the Electronic Health Record of a Health System	Sep-22	Jul-23	R0303143	\$17,887
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-24	R0303117	\$49,219
Smalley, Daniel	PI	National Science Foundation		CAREER: 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		PFI-TT: Kits for Developing Aerial 3D Display Technology	Mar-23	Aug-24	R0112511	\$160,740
Smalley, Daniel	PI	Light Field Lab, Inc.		FENG Characterization & Transparent "Sell" Membrane Ultrasonic Transducers	Jul-18	Nov-24	R0602687	\$53,534
Smalley, Daniel	PI	National Science Foundation		Breakthrough Display Technology as a New Medium for Spatial Thinking in STEM	Apr-19	Mar-24	R0112399	\$58,761
Smalley, Daniel	PI	National Science Foundation		2023 REU Supplement for PFI	Mar-23	Aug-24	R0112520	\$16,000
Smalley, Daniel	PI	Light Field Lab, Inc.		FENG Characterization & Transparent "Sell" Membrane Ultrasonic Transducers	Jul-18	Dec-24	R0602687	\$29,755
Warnick, Karl	PI	Army	Department of Defense	FPGA - Based Array Signal Processing for Spectrum Sensing and Distributed Active / Passive Radar	Sep-23	Aug-24	R0202592	\$280,000
Warnick, Karl	COI	National Science Foundation		ALPACA: Advanced Cryogenic L-band Phased Array Camera for the Arecibo Radio Telescope	Jun-18	May-24	R0112385	\$413,206

Warnick, Karl	PI	University of California – Berkeley	National Science Foundation	Developing RFSoc Digital Instrumentation for the CASPER Community	Sep-23	Aug-24	R0303198	\$58,830
Wirthlin, Michael	PI	BAE Systems, Inc.		SHREC I/UCRC Industry Membership Dues	Sep-17	Aug-23	R0602555	\$10,000
Wirthlin, Michael	PI	L3Harris Technologies, Inc. Communication Systems-West		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	Space Micro Inc.		SHREC I/UCRC Industry Membership Dues	Sep-17	Aug-24	R0602555	\$20,000
Wirthlin, Michael	PI	Pennsylvania State University	Defense Threat Reduction Agency	Interaction of Ionizing Radiation with Matter, University Research Alliance (IIRM-URA)	Jul-20	Feb-24	R0302947	\$78,350
Wirthlin, Michael	COI	Sandia National Laboratories	Department of Energy	Investigation of radiation effects and development of testing capabilities on Complex Ics in a radiation environment.	Jul-23	Dec-23	R0303175	\$5,000
Wirthlin, Michael	COI	Sandia National Laboratories	Department of Energy	Investigation of radiation effects and development of testing capabilities on Complex Ics in a radiation environment.	Jul-23	Dec-23	R0303175	\$5,000
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-24	R0112389	\$13,642
Wirthlin, Michael	PI	Raytheon		SHREC I/UCRC Industry Membership Dues	Sep-17	Aug-24	R0602555	\$10,000
Wirthlin, Michael	COI	Sandia National Laboratories	Department of Energy	Investigation of radiation effects and development of testing capabilities on Complex Ics in a radiation environment.	Jul-23	Oct-24	R0303175	\$5,000
Wirthlin, Michael	COI	Sandia National Laboratories	Department of Energy	Investigation of radiation effects and development of testing capabilities on Complex Ics in a radiation environment.	Jul-23	Oct-24	R0303175	\$5,000
<b>Manufacturing Engineering</b>								
Allen, Quentin	PI	National Science Foundation		ERI: Friction Stir Processing for Durability of Cobalt-Chromium-Molybdenum Biomaterials	Jul-23	Jun-25	R0112524	\$199,717
Allen, Quentin	PI	National Science Foundation		REU: ERI: Friction Stir Processing for Durability of Cobalt-Chromium-Molybdenum Biomaterials	Jul-23	Jun-25	R0112528	\$16,000
Hovanski, Yuri	PI	Engineering and Software System Solutions, Inc.	Air Force	Center for Friction Stir Processing Membership	Jan-23	Jan-24	R0303142	\$25,000
Hovanski, Yuri	PI	Boeing		Center of Friction Stir Processing Membership	Dec-19	Dec-23	R0602623	\$255,000
Hovanski, Yuri	PI	Bond Technologies, Inc.		Center of Friction Stir Processing Membership	Dec-19	Nov-1	R0602623	\$6,250
Hovanski, Yuri	PI	Bond Technologies, Inc.		Center of Friction Stir Processing Membership	Dec-19	Nov-1	R0602623	\$6,250

Hovanski, Yuri	PI	Friction Stir Processing I/UCRC Industry Membership Dues		Center of Friction Stir Processing Membership	Dec-19	Nov-1	R0602623	\$135,000
Hovanski, Yuri	PI	Northrop Grumman		NGC – Smart Manufacturing	Sep-23	Feb-24	R0602721	\$35,000
Miles, Michael	COI	General Electric Global Research		A Study on Method for Obtaining Material Flow Data for the Next Generation Inertia Weld Parameter Optimization Model	Mar-23	Dec-26	R0602710	\$37,500
Miles, Michael	COI	National Science Foundation		Improving Friction Stir Welding: Quantifying Thermal Interfaces using Thermal Waves	Jan-20	Dec-23	R0112431	\$8,000
Miles, Michael	COI	National Science Foundation		REU Supplement for GOALI/Collaborative Research: Understanding Multiscale Mechanics of Cyclic Bending under Tension to Improve Elongation-to-Fracture of Hexagonal Metals	Sep-22	Aug-25	R0112521	\$8,000
Miles, Michael	PI	Idaho National Laboratory	Department of Energy	Complex Internal Structures in Castings for Extreme Environmental Conditions	Jun-23	May-24	R0303161	\$29,826
Miles, Michael	PI	Idaho National Laboratory	Department of Energy	Complex Internal Structures in Castings for Extreme Environmental Conditions	Oct-23	May-24	R0303190	\$19,326
Nelson, Tracy	PI	General Electric Global Research		A Study on Method for Obtaining Material Flow Data for the Next Generation Inertia Weld Parameter Optimization Model	Mar-23	Dec-26	R0602710	\$37,500
Nelson, Tracy	PI	General Electric Global Research	Department of Defense	HR001121S0033 Morphogenic Interfaces (MINT) BAA	Mar-22	Mar-24	R0303056	\$65,000

#### ***Mechanical Engineering***

Adams, Brad	PI	Emery County Local Building Authority		Gasification Testing Facility Technical Advisor Services	Jan-23	Apr-24	R0492050	\$255,000
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	\$62,136
Allen, Matt	PI	Sandia National Laboratories	Department of Energy	Continuation: Amplitude Dependent System Identification with Modal Coupling	Feb-22	Sep-23	R0303141	\$75,000
Allen, Matt	PI	Kansas City National Security Campus	Department of Energy	Continuation: Influence of Boundary Conditions in Smart Environmental Testing	Nov-22	Nov-23	R0303130	\$25,000
Allen, Matt	PI	Pratt & Whitney		Characterizing the Damping and Nonlinearity in Riveted Joints	Jul-23	Jul-26	R0602719	\$161,000
Bateman, Terri	COI	Castle Grayskull LLC		Development of a Micro-compliant Mechanism for Propulsion of Micro-projectiles	Jan-23	Aug-23	R0602702	\$17,408
Blotter, Jonathan	PI	Caterpillar		Real-time detection of external speech signals in noise and further development of virtual cab audio technology	Jan-22	Dec-23	R0602681	\$54,863
Bowden, Anton	PI	33 Medical, Inc.		Posterior/Lateral Compliant Lumbar Disc Replacement	Jul-23	Jul-25	R0602718	\$150,115



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 (Best/Sensors)	Sep-21	May-24	R0303195	\$14,058
Bowden, Anton	PI	University of North Carolina – Chapel Hill	National Institutes of Health	Back Pain Consortium (BACPAC) Research Program Data Integration, Algorithm Development and Operations Management Center (Ancillary)	Sep-23	May-24	R0303196	\$57,209
Bowden, Anton	PI	University of North Carolina – Chapel Hill	National Institutes of Health	Back Pain Consortium (BACPAC) Research Program Data Integration, Algorithm Development and Operations Management Center (Ancillary)	Sep-23	May-24	R0303197	\$38,738
Cook, Douglas	PI	National Science Foundation		CAREER: Combining Engineering, Biomechanics, and Genetic Analysis to Enable the Design of Structurally Superior Grain Crops	Apr-21	Mar-26	R0112462	\$8,000
Crane, Nathan	PI	National Science Foundation		Collaborative Research: Modulating Powder Bed Cohesion to Reduce Defects in Binder Jetting	Aug-20	Jul-23	R0112455	\$16,000
Crane, Nathan	PI	National Science Foundation		Collaborative Research: Microfluidic MM-Wave RF Devices with Integrated Actuation	Sep-19	Aug-24	R0112434	\$8,000
Crane, Nathan	PI	National Science Foundation		Collaborative Research: Microfluidic Mm-Wave RF Devices with Integrated Actuation	Sep-19	Aug-24	R0112526	\$20,537
Crane, Nathan	PI	National Science Foundation		Collaborative Research: Modulating Powder Bed Cohesion to Reduce Defects in Binder Jetting	Aug-20	Jul-24	R0112447	\$20,890
Davies, Brady	PI	Sandia National Laboratories	Department of Energy	Capstone Project with Sandia 2023-24	Aug-23	Jul-24	R0303178	\$25,000
Dillon, Christopher	PI	Sandia National Laboratories	Department of Energy	BYU/SNL Reduced Order Methods Collaboration	Apr-22	Dec-23	R0303054	\$24,997
Fullwood, David	PI	National Science Foundation		REU Supplement for GOALI/Collaborative Research: Understanding Multiscale Mechanics of Cyclic Bending under Tension to Improve Elongation-to-Fracture of Hexagonal Metals	Sep-22	Aug-25	R0112521	\$8,000
Fullwood, David	PI	University of Utah	National Aeronautics and Space Administration	BYU Rocketry 2023 IREC Participation	May-23	May-24	R0303163	\$6,000
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 (Best/Sensors)	Sep-21	May-24	R0303195	\$13,644
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 (Ancillary)	Sep-23	May-24	R0303196	\$55,527
Gorrell, Steve	PI	University of Utah	National Aeronautics and Space Administration	Computational Fluid Dynamic Analysis of Centrifugal Pump Flowfields	May-23	May-24	R0303162	\$28,500
Gorrell, Steve	PI	Concepts NREC		Improved method for predicting the performance of a centrifugal impeller based on the TEIS and Two-Zone model	Jul-23	Dec-25	R0602720	\$41,250

Hill, Jeff	PI	Sandia National Laboratories	Department of Energy	Micro-beaded Encapsulants	Feb-23	Dec-24	R0303165	\$10,000
Homer, Eric	PI	Department of Energy		Computational and Experimental Investigation of Cryogenic Grain Boundary Motion for Enhanced Mechanical Properties	Aug-23	Jul-24	R0202591	\$109,588
Homer, Eric	PI	Massachusetts Institute of Technology	National Science Foundation	GOALI: Collaborative Research: Sustainable Alloy Design	Aug-23	May-25	R0303180	\$185,261
Howell, Larry	COI	Castle Grayskull LLC		Development of a Micro-compliant Mechanism for Propulsion of Micro-projectiles	Jan-23	Aug-23	R0602702	\$17,408
Howell, Larry	COI	CFD Research Corporation	Department of Defense	SBIR Phase I: Development of Hypersonic Glide Body Deployable Antennas	Nov-22	May-23	R0303156	\$10,000
Howell, Larry	COI	National Aeronautics and Space Administration		Metalens Origami Deployable Lidar (MODeL) Telescope	May-23	May-26	R0162047	\$32,500
Howell, Larry	COI	Florida International University	Air Force Office of Scientific Research	Transforming Antennas Center (TAC)	Aug-19	Aug-24	R0302882	\$75,000
Iverson, Brian	PI	National Aeronautics and Space Administration		Oscillating Heat Pipe Thermal Hinge for Passive Thermal Management	Aug-23	Jul-25	R0162048	\$74,000
Jensen, Brian	PI	Castle Grayskull LLC		Development of a Micro-compliant Mechanism for Propulsion of Micro-projectiles	Jan-23	Aug-23	R0602702	\$17,408
Johnson, Oliver	COI	Department of Energy		Computational and Experimental Investigation of Cryogenic Grain Boundary Motion for Enhanced Mechanical Properties	Aug-23	Jul-24	R0202591	\$109,588
Johnson, Oliver	COI	Department of Energy		Improving Reliability of Novel TRISO Fuel Forms for Advanced Reactors via Multiscale, High-Throughput Characterization and Modeling	Oct-23	Sep-26	R0202593	\$400,000
Jones, Matt	COI	Sandia National Laboratories	Department of Energy	BYU/SNL Reduced Order Methods Collaboration	Apr-22	Dec-23	R0303054	\$24,997
Killpack, Marc	PI	University of Utah	National Aeronautics and Space Administration	University Rover Challenge: 2023 BYU Mars Rover Team	May-23	May-24	R0303164	\$6,000
Magleby, Spencer	COI	Castle Grayskull LLC		Development of a Micro-compliant Mechanism for Propulsion of Micro-projectiles	Jan-23	Aug-23	R0602702	\$17,408
Magleby, Spencer	PI	CFD Research Corporation	Department of Defense	SBIR Phase I: Development of Hypersonic Glide Body Deployable Antennas	Nov-22	May-23	R0303156	\$10,000
Magleby, Spencer	PI	National Aeronautics and Space Administration		Metalens Origami Deployable Lidar (MODeL) Telescope	May-23	May-26	R0162047	\$32,500
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		Effective Use of Product Architecture to Help Engineering Teams Manage Complexity in the Design Process	Oct-21	Sep-25	R0202564	\$51,250

Maynes, Dan	PI	LeVanta Tech Inc.		Lift and Drag Measurements for a Hoverfoil Design using Enhanced Blowing for Near Ground Flight Conditions	May-23	Dec-23	R0602717	\$16,000
Maynes, Dan	COI	Concepts NREC		Improved method for predicting the performance of a centrifugal impeller based on the TEIS and Two-Zone model	Jul-23	Dec-25	R0602720	\$41,250
McLain, Tim	PI	CAAMS Industry Memberships		CAAMS Industry – McLain	Aug-22	Jul-27	R0602699	\$75,000
McLain, Tim	COI	National Science Foundation		IUCRC Phase I Brigham Young University: Center for Autonomous Air Mobility and Sensing (CAAMS)	Apr-22	Mar-27	R0112485	\$18,998
McLain, Tim	PI	Lawrence Livermore National Labs	Department of Energy	UAS Precision Landing by Fusing RTK GPS and Optical Sensor Data	Oct-20	Dec-23	R0302951	\$15,300
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	CAAMS Industry Memberships		Multi-agent localization in GPS-denied environments	Aug-22	Jul-24	R0602699	\$65,000
McLain, Tim	PI	CAAMS Industry Memberships		ROSflight2 – An open-source AAM autopilot under ROS 2	Aug-22	Jul-24	R0602726	\$35,000
Munro, Troy	PI	Idaho National Laboratory	Department of Energy	Center for Advanced Energy Studies (CAES) Collaboration Fund Proposal Program Development Activities	Apr-22	Sep-23	R0303061	\$13,904
Munro, Troy	PI	National Science Foundation		Improving Friction Stir Welding: Quantifying Thermal Interfaces using Thermal Waves	Jan-20	Dec-23	R0112431	\$8,000
Munro, Troy	PI	National Institutes of Health		Administrative Supplement for Equipment: 6-axis Positioner to Improve 3D Print Quality and Print Size-Equipment Supplement	Sep-22	Aug-25	R0102128	\$99,983
Munro, Troy	PI	Department of Energy		Improving Reliability of Novel TRISO Fuel Forms for Advanced Reactors via Multiscale, High-Throughput Characterization and Modeling	Oct-23	Sep-26	R0202593	\$400,000
Munro, Troy	PI	National Institutes of Health		3D printed, multi-material microfluidic calorimetry: Critical tools to study protein stability	Sep-22	Aug-25	R0102124	\$3,427
Ning, Andrew	PI	National Renewable Energy Laboratory	Department of Energy	Differentiable Programming for Coupled Multi-Physics Problems with Disparate Timescales	Mar-23	Sep-24	R0303148	\$201,524
Ning, Andrew	PI	National Renewable Energy Laboratory	Department of Energy	Multidisciplinary Optimization and Uncertainty Quantification of Wind Energy Systems	Apr-23	Sep-23	R0303154	\$120,000
Ning, Andrew	PI	CAAMS Industry Memberships		CAAMS Industry – Ning	Aug-22	Jul-27	R0602713	\$50,000
Ning, Andrew	COI	National Science Foundation		IUCRC Phase I Brigham Young University: Center for Autonomous Air Mobility and Sensing (CAAMS)	Apr-22	Mar-27	R0112485	\$18,998
Ning, Andrew	PI	National Aeronautics and Space Administration		An Algorithmic Differentiation Based Framework for Mixed Analysis Codes	Sep-23	Aug-26	R0162050	\$182,245
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-24	R0303031	\$230,000
Ning, Andrew	PI	CAAMS Industry Memberships		Unsteady aerodynamic analysis with vortex particle methods	Aug-22	Jul-24	R0602713	\$50,000

Salmon, John	PI	Utah State University	Department of Energy	Wasatch Front Multi-Modal Corridor Electrification Plan	Oct-23	Mar-25	R0303199	\$60,000
Sorensen, Carl	PI	COLSA Corporation	Department of Defense	United States Space Force Auto-Tracking Antenna	Nov-22	Apr-23	R0303118	\$3,500
Sorensen, Carl	COI	United States Air Force Academy		Effective Use of Product Architecture to Help Engineering Teams Manage Complexity in the Design Process	Oct-21	Sep-25	R0202564	\$51,250
Tree, Dale	PI	Solar Turbines		BYU-Solar Turbine, Gas Temperature Sensor Development	Feb-23	Jan-24	R0602703	\$84,520
Tree, Dale	COI	Ample Carbon		Combustion Testing in Support of Conversion of Coal-fired Utility Boilers to Biomass Combustors	Apr-23	Mar-25	R0602708	\$117,550

# COLLEGE OF FAMILY, HOME, AND SOCIAL SCIENCES



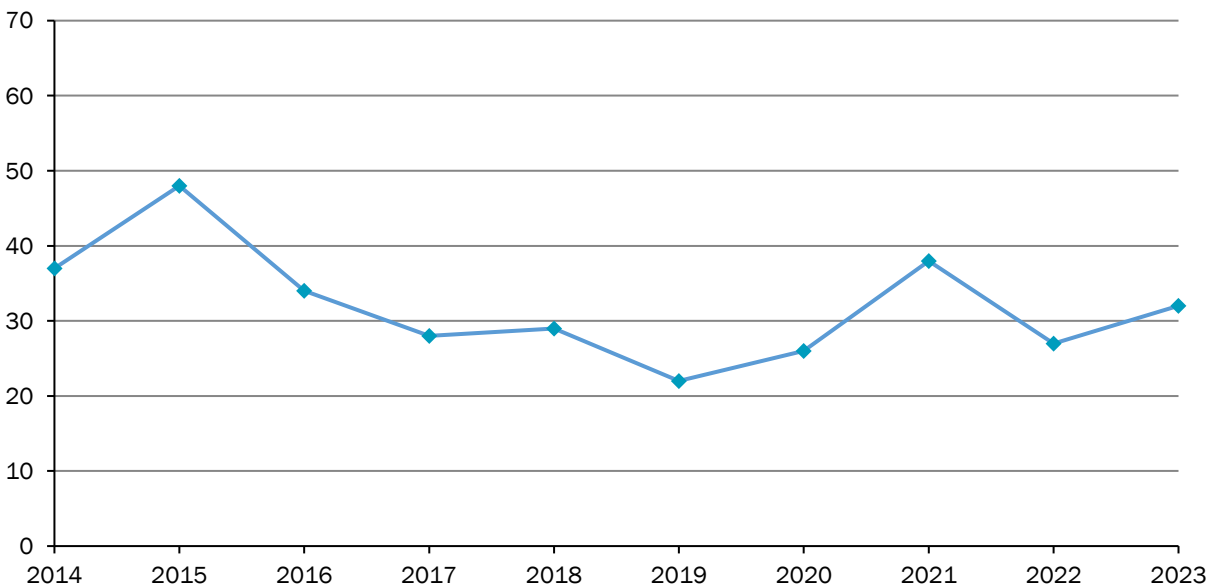


# Summary by Departments

Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards*	Dollars Awarded*
Anthropology	0	0	0	\$0
Economics	5	11	6	\$224,078
Geography	2	2	2	\$65,515
History	3	3	4	\$507,365
Museum of Peoples and Cultures	1	1	0	\$0
Political Science	1	1	0	\$0
Psychology	6	6	2	\$66,123
School of Family Life	2	4	4	\$195,832
School of Social Work	2	2	2	\$156,805
Sociology	2	2	1	\$12,198
<b>TOTALS</b>	<b>24</b>	<b>32</b>	<b>21</b>	<b>\$1,227,916</b>

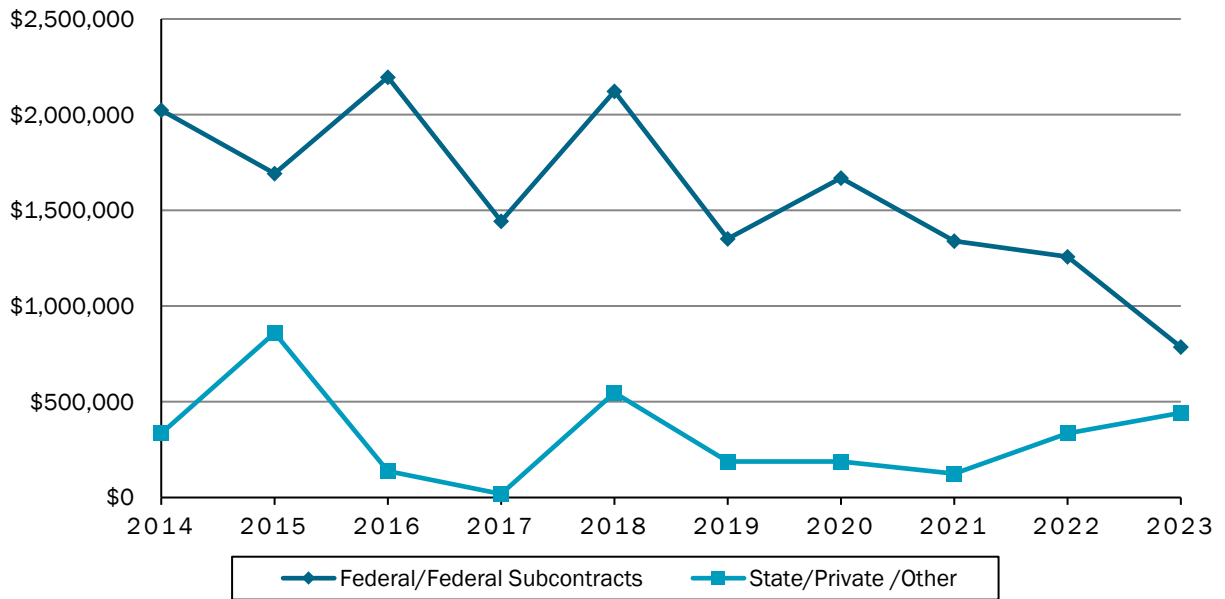
\*Number of Awards are counted by PI only, while total Dollars Awarded is split between all researchers

## Proposal Submissions



# Awards by Sources

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private /Other	
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
2023	\$786,097	\$441,819	\$1,227,916





# College of Family, Home, & Social Sciences

## 2023 Awards

Researcher	Role	Sponsor	Prime Sponsor	Title	Beg Date	End Date	Account	Amount
<b>Economics</b>								
Eliason, Paul	PI	Boston University	Arnold Ventures	Auctions as Antifraud: Lessons from Medicare Durable Medical Equipment	Jun-24	May-25	R0502399	\$23,741
Leslie, Emily	PI	Russell Sage Foundation		The intersection of housing and criminal activity	Jun-23	May-24	R0502393	\$30,000
Price, Joe	PI	University of Maryland	National Institutes of Health	The impact of Medicare on Individual Longevity: Evidence from Medicare Introduction Using Big Data	Mar-23	Feb-24	R0303168	\$56,628
Stoddard, Olga	PI	Tufts University	Russell Sage Foundation	Who Ya Gonna Call? Gender Differences in Demand for Parental Involvement	Jan-23	Dec-23	R0502389	\$32,413
Stoddard, Olga	PI	Tufts University		Increasing Gender Diversity in Economics	Sep-23	Sep-24	R0502402	\$41,096
Wilson, Riley	PI	Boston College	Social Security Administration	Benefit Generosity, Take-up, and Behavioral Responses: Evidence from SSI	Jun-23	May-24	R0303158	\$40,200
<b>Geography</b>								
Bekker, Matt	PI	National Science Foundation		Collaborative Research: High-Resolution, Multi-Species Reconstructions of Greater Yellowstone Region Paleoclimates Using Tree-Ring Anatomy	Jul-23	Jun-26	R0112516	\$52,384
Bekker, Matt	PI	Utah State University	National Science Foundation	Hydroclimate Variability and the Evolution of Socioecological Complexity in Dryland Farming Communities	Aug-21	Jul-24	R0303022	\$13,131
<b>History</b>								
Cannon, Brian	PI	The Church of Jesus Christ of Latter-day Saints		Ottoman Census of Palestine Index/Research	May-21	Dec-23	R0702020	\$50,000
Crandell, Jill	PI	University of Wisconsin-Madison	Department of Defense	Defense POW/MIA Accounting Agency Repatriation Project	Sep-19	Sep-24	R0302894	\$75,000
McCollum, Jonathon	COI	The Church of Jesus Christ of Latter-day Saints		Ottoman Census of Palestine Index/Research	May-21	Dec-23	R0702020	\$50,000
Shumway, Jeffrey	PI	University of Utah	Department of Education	FLAS Grant	Aug-22	Aug-24	R0303120	\$249,667
Shumway, Jeffrey	PI	University of Utah	Department of Education	Title VI NRC Grant	Aug-22	Aug-24	R0303121	\$82,698

***Psychology***

Holt-Lunstad, Julianne	PI	George Washington University	John Templeton Foundation	Extending the Table: Does Shabbat Dinner as a Spiritual Practice Increase Social Connectedness?	Nov-22	Oct-25	R0502388	\$61,123
Holt-Lunstad, Julianne	PI	University of Georgia	Eventbrite	Eventbrite Social Connection Research Project	Jun-22	May-23	R0602689	\$5,000

***School of Family Life***

Coyne, Sarah	PI	Georgetown University	National Institutes of Health	Early childhood and digital media	Sep-22	Aug-24	R0303133	\$56,642
Coyne, Sarah	PI	Georgetown University	National Institutes of Health	Early childhood and digital media	Sep-22	Aug-24	R0303133	\$106,909
Coyne, Sarah	PI	Georgetown University	National Institutes of Health	Growing up in a Digital World: A synergistic approach to understanding media use in children ages 0-8	Sep-23	Aug-24	R0303209	\$22,281
Hawkins, Alan	PI	Utah State University	State of Utah	Utah Marriage Commission Content Development – BYU-SFL	Jan-23	May-23	R0402392	\$5,000
Yorgason, Jeremy	COI	Utah State University	State of Utah	Utah Marriage Commission Content Development – BYU-SFL	Jan-23	May-23	R0402392	\$5,000

***Social Work***

Clark, Charlene	PI	Utah Commission on Service & Volunteerism	AmeriCorps	AmeriCorps Program 2023-2024	Aug-23	Aug-24	R0303183	\$18,359
Hooley, Cole	PI	Association of Social Work Boards		Understanding the impact licensing policies have on scaling-up the Social Work workforce and mitigating harm	Oct-23	Aug-25	R0502400	\$138,446

***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-24	R0303047	\$12,198
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# COLLEGE OF FINE ARTS AND COMMUNICATIONS



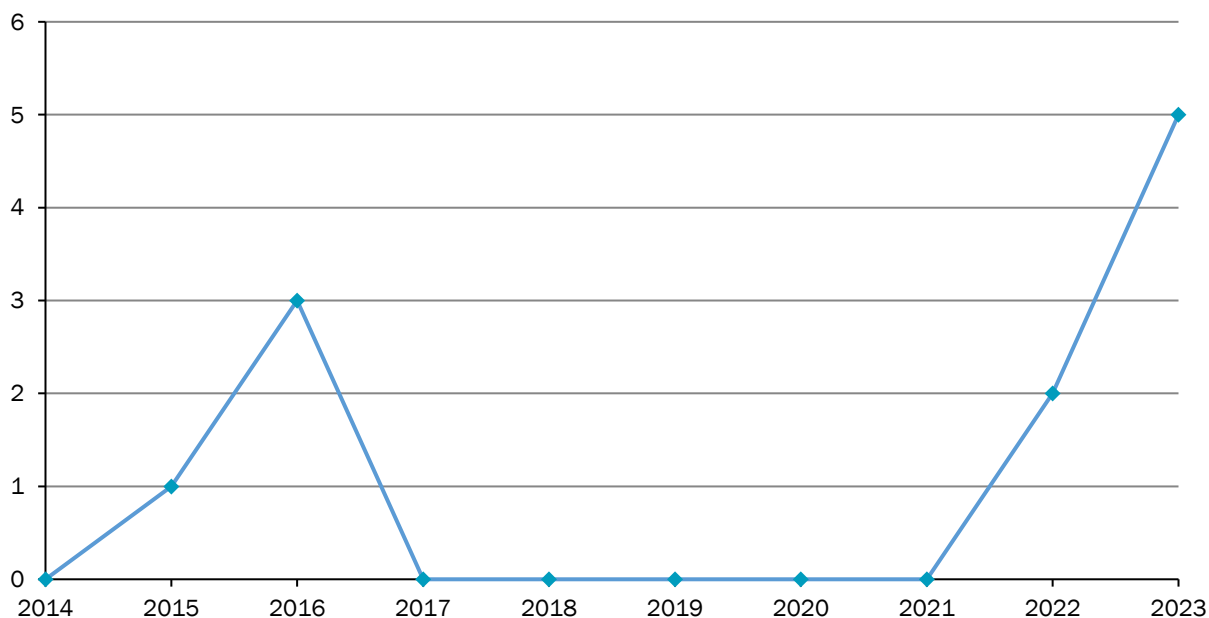


# Summary by Departments

Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards*	Dollars Awarded*
Art	1	1	1	\$10,500
Bravo	1	2	2	\$6,900
Communications	1	1	1	\$4,300
Dance	0	0	0	\$0
Design	0	0	0	\$0
Museum of Art	1	1	0	\$0
School of Music	0	0	0	\$0
Theatre & Media Arts	0	0	0	\$0
<b>TOTALS</b>	4	5	4	\$21,700

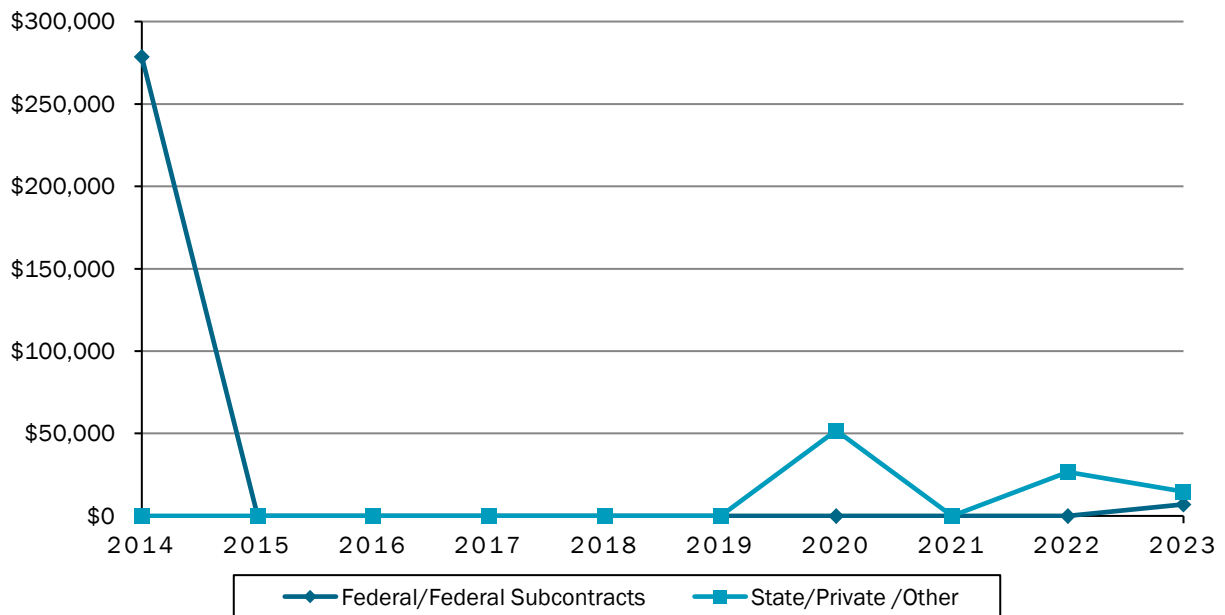
\*Number of Awards are counted by PI only, while total Dollars Awarded is split between all researchers

## Proposal Submissions



# Awards by Sources

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private /Other	
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
2023	\$6,900	\$14,800	\$21,700



# College of Fine Arts & Communications

## 2023 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>
<b>Art</b>								
Graham, Mark	PI	National Art Education Foundation		STEAM, Arts Integration, and Academic Achievement Among Native American Youth	Sep-23	Jul-24	R0502398	\$10,500
<b>Bravo</b>								
Keith, Lyndsay	PI	Western States Art Federation	National Endowment for the Arts	Bravo! Series Production Expenses Funding	Sep-22	Aug-23	R0303179	\$3,900
Keith, Lyndsay	PI	Western States Art Federation	National Endowment for the Arts	2023-24 Season: Bravo! Series Production Expenses Funding	Sep-23	Aug-24	R0303204	\$3,000
<b>Communications</b>								
Smith, Brian	PI	Arthur W. Page Center at Penn State		Developing Corporate Social Advocacy through the Lens of Refugee Relations Lessons for Navigating the Threats of Pro-Social Communication	Jul-23	Dec-24	R0802054	\$4,300





# COLLEGE OF HUMANITIES



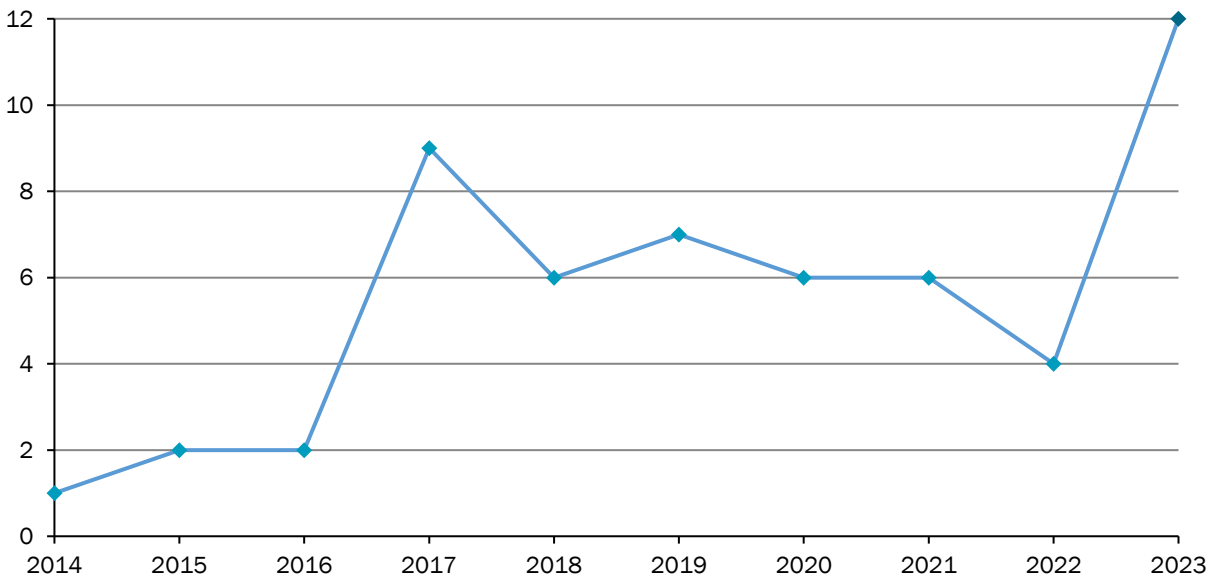


# Summary by Departments

Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards*	Dollars Awarded*
Asian & Near Eastern Languages	2	6	5	\$763,489
Comparative Arts & Letters	2	2	4	\$381,895
English	1	1	0	\$34,930
French & Italian	0	0	0	\$0
German & Russian	0	0	0	\$0
Linguistics & English Language	2	2	1	\$191,297
Philosophy	0	0	0	\$0
Spanish & Portuguese	1	1	0	\$38,904
<b>TOTALS</b>	<b>8</b>	<b>12</b>	<b>10</b>	<b>\$1,410,515</b>

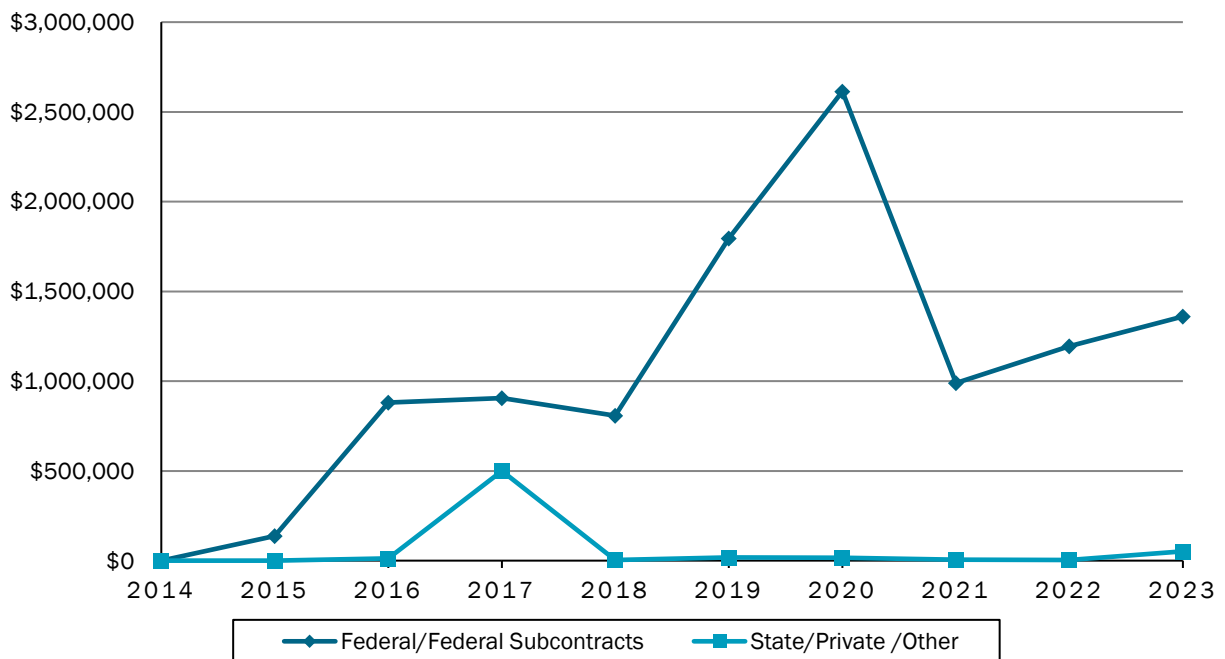
\*Number of Awards are counted by PI only, while total Dollars Awarded is split between all researchers

## Proposal Submissions



# Awards by Sources

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private /Other	
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
2023	\$1,359,361	\$51,154	\$1,410,515



# College of Humanities

## 2023 Awards

Researcher	Role	Sponsor	Prime Sponsor	Title	Beg Date	End Date	Account	Amount
<b>Asian and Near Eastern Languages</b>								
Belnap, Kirk	PI	Institute of International Education	National Security Education Program	Arabic Flagship Center-Domestic FY 23-24	Jun-23	Mar-24	R0303166	\$324,991
Belnap, Kirk	PI	Institute of International Education	National Security Education Program	Arabic Flagship Center-Domestic FY 23-24 – Participant Support	Jun-23	Mar-24	R0303194	\$15,000
Christensen, Matthew	PI	Institute of International Education	National Security Education Program	2023-24 Chinese Flagship Summer Student Support	Apr-23	Aug-23	R0303160	\$38,500
Christensen, Matthew	PI	Institute of International Education	National Security Education Program	Chinese Flagship Center-Domestic FY 23-24	Jun-23	Mar-24	R0303167	\$324,998
Christensen, Matthew	PI	Institute of International Education	National Security Education Program	Chinese Flagship Center-Domestic FY 23-24 – Participant Support	Jun-23	Mar-24	R0303193	\$60,000
<b>Comparative Arts &amp; Letters</b>								
Allen, Julie	PI	The Danish Agency for Education and Research		Danish courses 2024	Jan-24	Dec-24	R0570039	\$5,000
Kramer, Nate	PI	Finnish National Agency for Education		Support for the Teaching of Finnish Language and Culture	Jan-22	Dec-23	R0570036	\$2,250
Kramer, Nate	COI	The Danish Agency for Education and Research		Danish courses 2024	Jan-24	Dec-24	R0570039	\$5,000
Yamada, Marc	PI	University of Utah	Department of Education	Intermountain Consortium for Asian and Pacific Studies Undergraduate FLAS Program 2022	Aug-22	Aug-24	R0303097	\$257,745
Yamada, Marc	PI	University of Utah	Department of Education	Intermountain Consortium for Asian and Pacific Studies Undergraduate NRC Program 2022	Aug-22	Aug-24	R0303112	\$111,900
<b>English</b>								
Balzotti, Jon	COI	Idaho National Laboratory	Department of Energy	Immersive Problem-Based Simulations for Beartooth Digital Twin	May-23	Jan-24	R0303146	\$9,293
Balzotti, Jon	COI	Idaho National Laboratory	Department of Energy	Immersive Problem-Based Simulations for Beartooth Digital Twin	May-23	Jan-24	R0303146	\$25,637

***Linguistics & English Language***

Clifford, Ray	PI	National Security Agency	Specifications for the Creation and Evaluation of Reading and Listening Proficiency Tests	Sep-23	Aug-24	R0202598	\$95,648
Wilcox, Matthew	COI	National Security Agency	Specifications for the Creation and Evaluation of Reading and Listening Proficiency Tests	Sep-23	Aug-24	R0202598	\$95,648

***Spanish & Portuguese***

Alvord, Scott	COI	Merck	Overcoming barriers to HPV vaccine acceptance among Hispanic Immigrants to the US	Jan-23	Jan-25	R0602701	\$38,904
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# J. REUBEN CLARK LAW SCHOOL





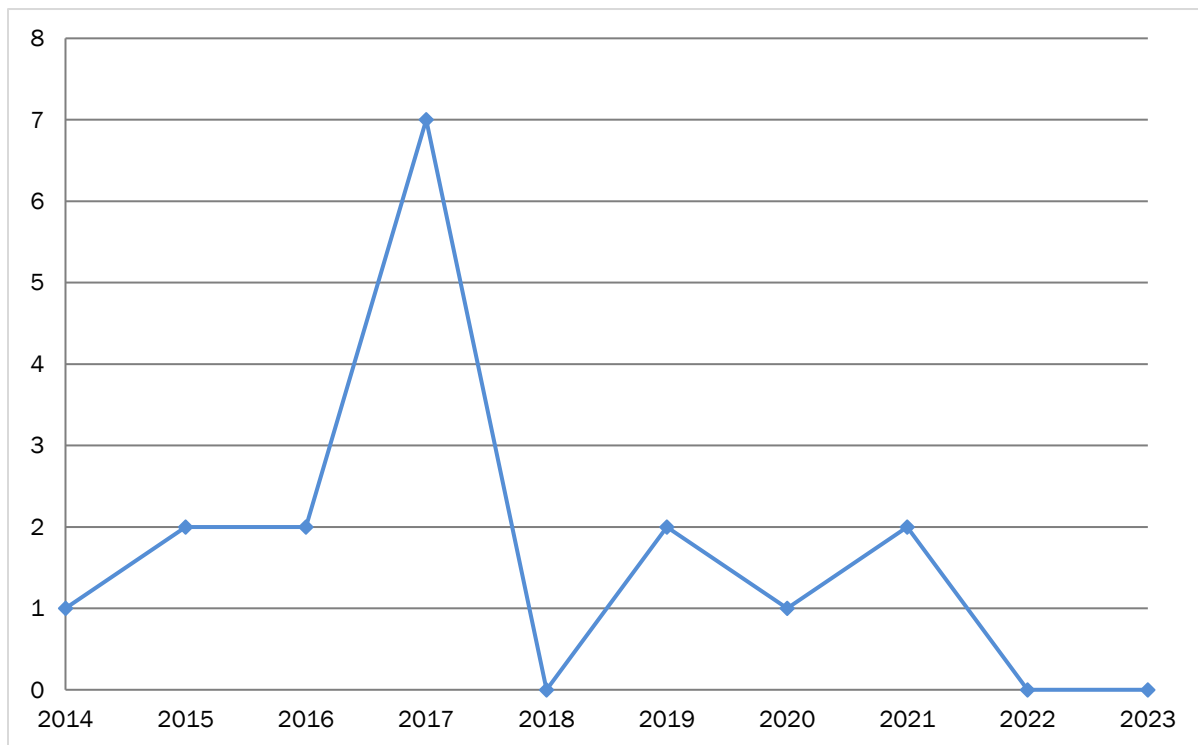


# Summary by Departments

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

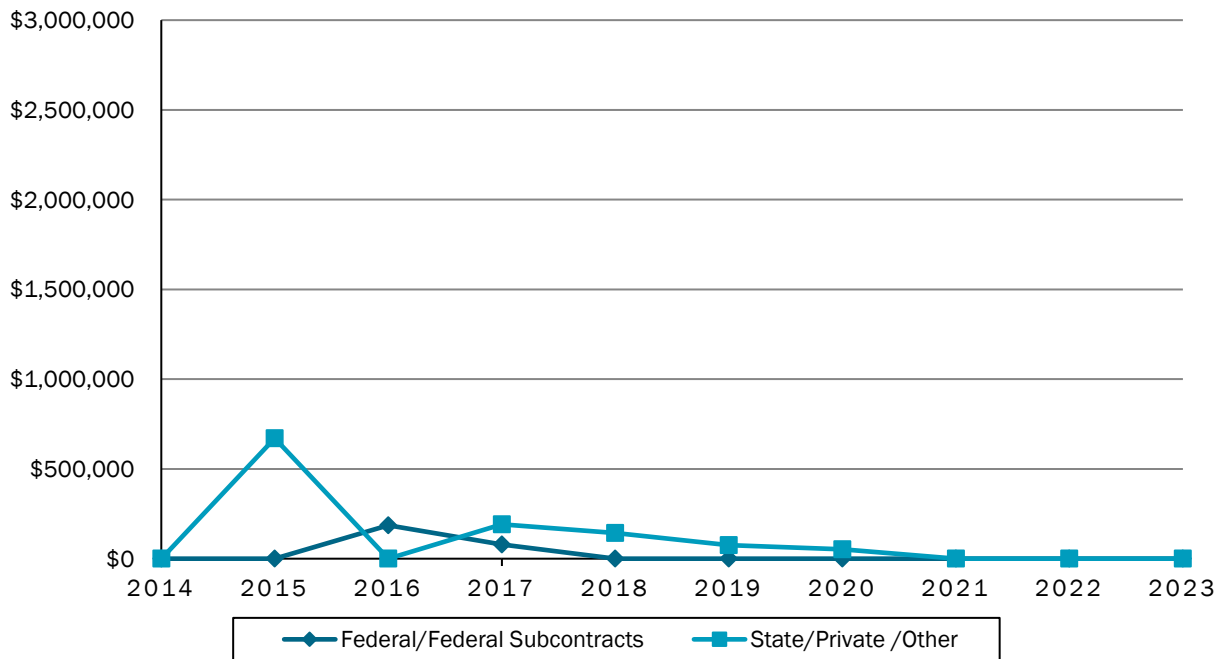
\*Number of Awards are counted by PI only, while total Dollars Awarded is split between all researchers

## Proposal Submissions



# Awards by Sources

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
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
2023	\$0	\$0	\$0



# COLLEGE OF LIFE SCIENCES



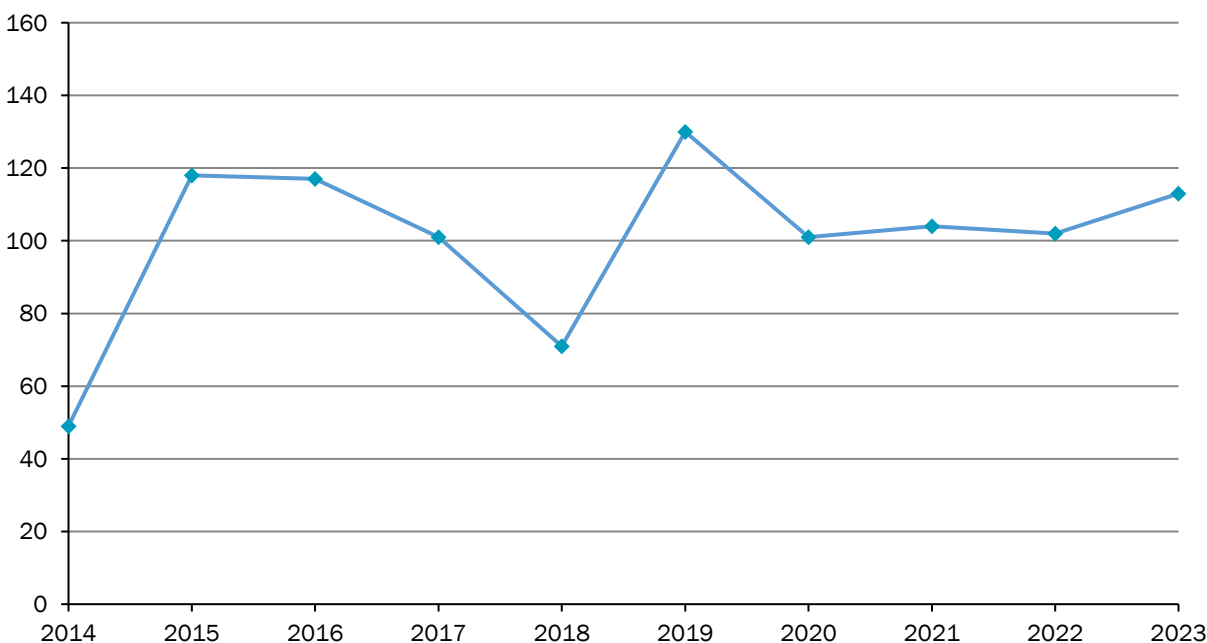


# Summary by Departments

Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards*	Dollars Awarded*
Biology	12	27	10	\$2,286,599
Cell Biology & Physiology	13	27	12	\$960,186
Exercise Science	3	3	2	\$324,540
Microbiology & Molecular Biology	7	9	8	\$728,291
Monte L. Bean Life Science Museum	1	1	1	\$35,000
Nutrition, Dietetics & Food Science	4	11	6	\$306,882
Plant & Wildlife Sciences	9	24	20	\$1,563,152
Public Health	5	11	7	\$181,929
<b>TOTALS</b>	<b>54</b>	<b>113</b>	<b>66</b>	<b>\$6,386,579</b>

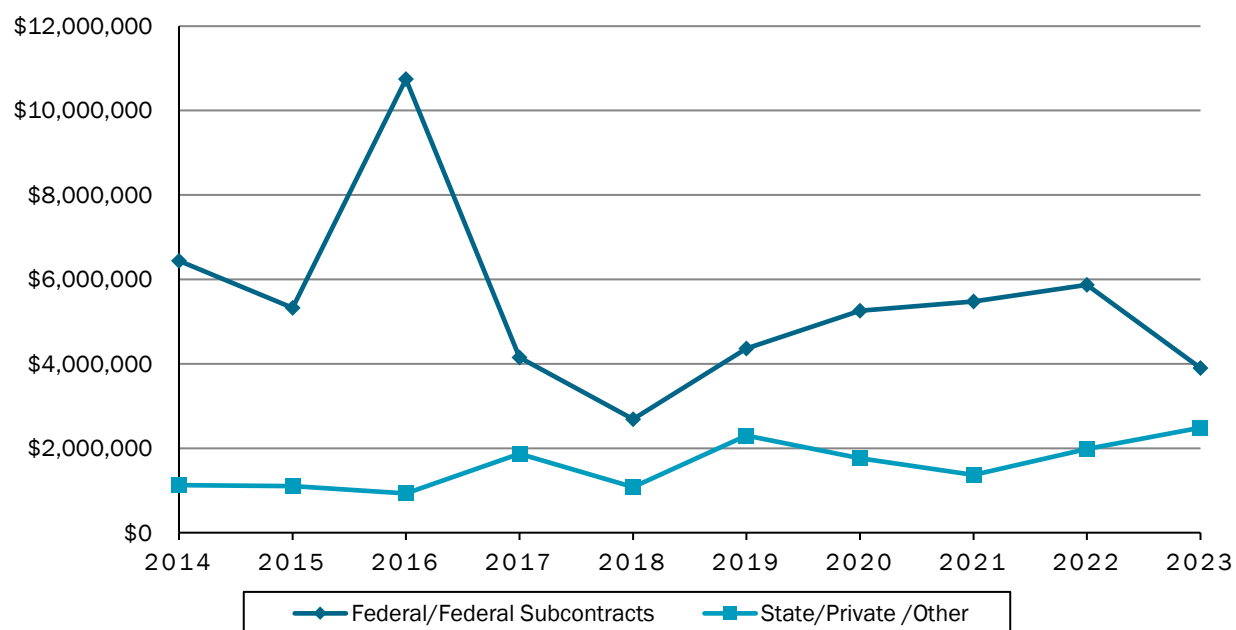
\*Number of Awards are counted by PI only, while total Dollars Awarded is split between all researchers

## Proposal Submissions



# Awards by Sources

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private /Other	
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
2023	\$3,899,724	\$2,486,855	\$6,386,579



# College of Life Sciences

## 2023 Awards

Researcher	Role	Sponsor	Prime Sponsor	Title	Beg Date	End Date	Account	Amount
<b>Biology</b>								
Adams, Byron	PI	University of Colorado, Boulder	National Science Foundation	LTER: The Roles of Legacy and Ecological Connectivity in a Polar Desert Ecosystem	Sep-23	Aug-29	R0303203	\$98,788
Bybee, Seth	PI	National Science Foundation		Collaborative Research: Genealogy of Odonata (GEODE): Dispersal and color as drivers of 300 million years of global dragonfly evolution	Jun-20	May-24	R0112441	\$9,558
Clark, Shawn	PI	National Science Foundation		Digitization of BYU bee collection: a collaboration with iDigBees	Dec-22	Nov-26	R0112510	\$20,746
Jensen, Jamie	COI	Merck		Overcoming barriers to HPV vaccine acceptance among Hispanic Immigrants to the US	Jan-23	Jan-25	R0602701	\$38,904
Jensen, Jamie	COI	National Science Foundation		Collaborative Research: Genealogy of Odonata (GEODE): Dispersal and color as drivers of 300 million years of global dragonfly evolution	Jun-20	May-24	R0112441	\$9,558
Kauwe, Keoni	COI	Washington State University	National Institutes of Health	Natives Engaged in Alzheimer's Research	Aug-21	Apr-24	R0303014	\$200,168
Payne, Samuel	PI	Silicon Valley Community Foundation		Improved Quantitative Fidelity for Single Cell Proteomics	May-23	Oct-24	R0502391	\$200,000
Payne, Samuel	COI	National Institutes of Health		Biochemical Consequences of Regiospecific Metabolic Bias in the Brain	May-20	Feb-24	R0102103	\$146,072
Payne, Samuel	PI	National Institutes of Health		Enhanced Sensitivity and Quantitative Precision for Single Cell Proteomics	Sep-22	May-24	R0102125	\$150,219
Payne, Samuel	COI	National Institutes of Health		Fully Automated and Ultra-high Throughput Platform for In-depth Single Cell Proteomics	Sep-20	Aug-24	R0102106	\$165,263
Payne, Samuel	COI	National Institutes of Health		Advanced Sample Preparation, Separation and Multiplexed Analysis for In-Depth Proteome Profiling of >1000 Single Cells Per Day	Aug-23	Jul-24	R0102129	\$175,037
Payne, Samuel	PI	National Institutes of Health		Diversity Supplement for Alyssa Nitz for GM147653	Jun-23	May-24	R0102130	\$71,510
Payne, Samuel	COI	National Institutes of Health		Fully Automated and Ultra-high Throughput Platform for In-depth Single Cell Proteomics	Sep-20	Aug-24	R0102106	\$125,000
Payne, Samuel	PI	National Institutes of Health		Creating AI/ML-ready data for single cell proteomics	Jun-23	May-24	R0102132	\$293,679
Ridge, Perry	PI	Utah State University		Database/Catalog Cache County Biological Samples at BYU and Development of Website and Central Dataset	Mar-23	Mar-24	R0802052	\$32,040
Ridge, Perry	PI	Utah State University		Building a Native-Hawaiian-Pacific Islander Cohort to Augment the Cache County Study	Mar-23	Mar-24	R0802053	\$57,106

Ridge, Perry	PI	Washington State University	National Institutes of Health	Natives Engaged in Alzheimer's Research	Aug-21	Apr-24	R0303014	\$200,168
Stowers, Joshua	COI	National Science Foundation		Developing Three-dimensional Science Teachers in Underserved Rural Settings	Sep-21	Aug-25	R0112460	\$205,065
Stowers, Joshua	COI	National Science Foundation		Developing the Pedagogical Skills and Science Expertise of Teachers in Underserved Rural Settings	Sep-21	Aug-25	R0112461	\$66,975
Whiting, Michael	COI	National Science Foundation		Digitization of BYU bee collection: a collaboration with iDigBees	Dec-22	Nov-26	R0112510	\$20,746

#### ***Cell Biology & Physiology***

Bikman, Benjamin	PI	Anderson Advanced Ingredients		Exploring the metabolic and endocrine effects of allulose	May-23	Apr-26	R0602714	\$83,930
Hansen, Jason	PI	University of Massachusetts Amherst	National Institutes of Health	Activation of Nrf2 during embryonic development: mechanisms and consequences	Mar-22	Dec-23	R0303064	\$28,773
Hansen, Jason	PI	Snow Canyon Therapeutics, Inc.		Assessment of wogonin products in vivo	Nov-22	Nov-24	R0602698	\$53,025
Hill, Jonathon	PI	B&B Healthcare Solutions LLC.		Development of a Method for Antigen Detection Using a Conformational Switch	Jan-23	Apr-23	R0602700	\$12,025
Hill, Jonathon	COI	Renew Diagnostics, LLC		Novel diagnostic and research sequencing approaches utilizing Nanopore	Jul-22	Jun-26	R0602694	\$114,158
Hill, Jonathon	COI	Inherent Biosciences, Inc.	National Institutes of Health	Comprehensive diagnostic generation for Azoospermia and Cryptozoospermia	Aug-23	Feb-26	R0303202	\$88,755
Jenkins, Timothy	PI	Renew Diagnostics, LLC		Novel diagnostic and research sequencing approaches utilizing Nanopore	Jul-22	Jun-26	R0602694	\$114,158
Jenkins, Timothy	PI	Inherent Biosciences, Inc.	National Institutes of Health	Comprehensive diagnostic generation for Azoospermia and Cryptozoospermia	Aug-23	Feb-26	R0303202	\$88,755
Parrish, Robert Ryley	PI	American Epilepsy Society		Novel Model to Study Refractory Status Epilepticus	Sep-23	Aug-24	R0502396	\$25,000
Reynolds, Paul	PI	Flight Attendant Medical Research Institute, Inc.		Utilization of novel bromo-domain inhibitors to ameliorate secondhand smoke-induced COPD pathogenesis	Jul-23	Jun-24	R0502395	\$108,500
Suli, Arminda	PI	National Science Foundation		Graduate Research Fellowship-Bailey Calder	Sep-23	Aug-24	R0112523	\$49,000
Thomson, David	PI	Biolexis Therapeutics		AMPK Activation by BLX Compounds In Cultured Cells (Option 2)	Mar-23	Jul-23	R0602707	\$10,107
Thomson, David	PI	Biolexis Therapeutics		AMPK Activation by BLX Compounds In Cultured Cells (Option 2)	Mar-23	Apr-24	R0602707	\$20,692
Yorgason, Jordan	PI	National Institutes of Health		Neuroimmune mechanisms of alcohol reward	Jul-23	Apr-24	R0102127	\$163,308



<b><i>Exercise Science</i></b>								
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	R0602671	\$23,604
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-24	R0602671	\$47,884
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	R0602671	\$24,320
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-24	R0602671	\$49,335
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 (Best/Sensors)	Sep-21	May-24	R0303195	\$13,644
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 (Ancillary)	Sep-23	May-24	R0303196	\$55,527
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 (Ancillary)	Sep-23	May-24	R0303197	\$38,738
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	R0602671	\$23,604
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-24	R0602671	\$47,884
<b><i>Microbiology &amp; Molecular Biology</i></b>								
Berges, Brad	PI	Ross Southern Labs		Production of large-scale viral antigens	Mar-22	Apr-24	R0602682	\$93,820
Evans, R Paul	PI	National Park Service	Department of Interior	West Desert Bonneville Cutthroat Trout Populations – Genetics and Origins	Jul-22	Dec-23	R0202578	\$26,438
Grose, Julianne	PI	Rural Development Administration of the Republic of Korea		Establishing the international network for prevention and management of fire blight	Jan-22	Dec-24	R0570035	\$40,000
Pickett, Brett	PI	Beekeeping 101	National Science Foundation	BYU support for BeeKeeping 101 STTR proposal	Sep-23	Sep-24	R0303201	\$133,550
Poole, Brian	PI	American Cancer Society		Assessing HPV attitudes and Barriers in Rural Utah	Nov-22	May-23	R0502384	\$39,000
Poole, Brian	PI	Merck		Overcoming barriers to HPV vaccine acceptance among Hispanic Immigrants to the US	Jan-23	Jan-25	R0602701	\$38,904

Robison, Richard	PI	Western Dairy Center		Using natural antimicrobial compounds derived from soil bacteria to lower microbial bio-burden of dried milk	Nov-23	Oct-25	R0502403	\$48,792
Weber, Scott	COI	National Institutes of Health		Neuroimmune mechanisms of alcohol reward	Jul-23	Apr-24	R0102127	\$163,308
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-24	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-23	Jun-24	R0402405	\$35,000
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#### ***Nutrition, Dietetic & Food Science***

Ahlborn, Gene	PI	Welfare and Self-Reliance Services, The Church of Jesus Christ of Latter-day Saints		Pathogen Analysis for Peanut Butter	Mar-1	Dec-23	R0702021	\$25,000
Ahlborn, Gene	PI	Deseret Meats - The Church of Jesus Christ of Latter-day Saints		Pathogen Analysis for Meat Products Produced at Deseret Meats	Mar-1	Dec-23	R0702022	\$45,570
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
Kenealey, Jason	PI	Western Dairy Center		Developing a method using differential scanning calorimetry to characterize and quantify casein and whey proteins	Jan-23	Jan-26	R0502401	\$138,900
Pang, Shintaro	PI	Western Dairy Center		Rapid determination of lactose and other sugars in dairy products	Sep-23	Sep-25	R0502404	\$36,200
Richards, Rickelle	PI	The University of Texas Health Science Center at Houston	National Institutes of Health	Evaluation of Food Security Scales among Hispanic Parents and Adolescents: A Cognitive Interview and Psychometric Properties Study	Aug-23	Jul-25	R0303212	\$32,746

#### ***Plant & Wildlife Sciences***

Aanderud, Zach	COI	Aqua Environmental Services		Thermophilic bacterial pretreatment of lignocellulosic and wet waste for increased biogas production	Nov-19	Jun-24	R0602622	\$10,000
Aanderud, Zach	COI	National Science Foundation		Collaborative Research: Network Cluster: Dust in the Critical Zone from the Great Basin to the Rocky Mountains	Sep-21	Aug-25	R0112444	\$62,136
Abbott, Ben	PI	National Science Foundation		Collaborative research: Arctic Stream Network as Nutrient Sensors in Permafrost Ecosystems	Oct-19	Sep-25	R0112423	\$73,080
Abbott, Ben	PI	National Science Foundation		Collaborative Research: Network Cluster: Using Big Data approaches to assess ecohydrological resilience across scales	Sep-21	Aug-23	R0112445	\$125,155

Anderson, Val	COI	Rio Tinto Kennecott		Improving Vegetation Establishment on Kennecott Mine Waste Rock Dumps and Tailings: Second Agreement	Jan-23	Dec-25	R0602709	\$133,241
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	\$27,149
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	\$23,670
Geary, Bradley	COI	Rio Tinto Kennecott		Improving Vegetation Establishment on Kennecott Mine Waste Rock Dumps and Tailings: Second Agreement	Jan-23	Dec-25	R0602709	\$133,241
Hansen, Neil	PI	Utah State University	Department of Agriculture	Identifying Stacked Conservation Practices that Optimize Water Use in Agriculture: Phase II	Jul-22	Jun-25	R0303151	\$31,952
Hansen, Neil	PI	Utah State University	4R Research Fund	Stacking and Intersecting Nutrient and Irrigation 4R's	Jan-21	May-24	R0502317	\$20,885
Hopkins, Bryan	PI	Soil Science Society of America		North American Proficiency Testing (NAPT) Program Coordinator	Jan-22	Dec-23	R0502358	\$5,000
Hopkins, Bryan	COI	Utah State University	4R Research Fund	Stacking and Intersecting Nutrient and Irrigation 4R's	Jan-21	May-24	R0502317	\$20,885
Hopkins, Bryan	PI	US Geological Survey	Department of Interior	USGS - Soil Analysis	Sep-20	Sep-24	R0202546	\$7,260
Hulet, April	PI	Boise State University	Department of Agriculture	Targeted Grazing by Sheep to Control Invasive Species and Reduce Wildfire Risk on Western Rangelands	Jul-22	Jun-25	R0303145	\$19,778
Hulet, April	COI	Rio Tinto Kennecott		Improving Vegetation Establishment on Kennecott Mine Waste Rock Dumps and Tailings: Second Agreement	Jan-23	Dec-25	R0602709	\$133,241
Larsen, Randy	PI	Utah Reclamation Mitigation and Conservation Commission		Avian Abundance and Movement near Provo Airport, Provo River Delta Restoration Project	Jan-23	Dec-27	R0202586	\$30,000
Larsen, Randy	PI	Utah Division of Wildlife Resources	US Fish and Wildlife Service	Spatial Ecology of Chukar Partridge Brood in Relation to Artificial Water Sources	Jul-22	Jun-25	R0303150	\$97,556
Larsen, Randy	PI	Utah Reclamation Mitigation and Conservation Commission		Study of Sage-grouse in Strawberry Valley	Jul-21	Jun-24	R0202518	\$60,000
Larsen, Randy	PI	Utah Division of Wildlife Resources	US Fish and Wildlife Service	Spatial Ecology of Chukar Partridge Brood in Relation to Artificial Water Sources	Jul-22	Jun-25	R0303150	\$45,592
Larsen, Randy	PI	Army, Dugway Proving Grounds	Department of Defense	Monitoring of Natural Resources with Remote Cameras, Photo Database and Automation Algorithm- Dugway Proving Ground, UT	Sep-19	Mar-25	R0202529	\$25,000
Larsen, Randy	PI	Utah Division of Wildlife Resources		Collection of Baseline Data for Waterfowl and Other Waterbirds at Utah Lake	Nov-23	Jun-26	R0402404	\$49,716
Larsen, Randy	PI	Utah Reclamation Mitigation and Conservation Commission		Avian Abundance and Movement near Provo Airport, Provo River Delta Restoration Project	Jan-23	Dec-27	R0202586	\$30,000

Madsen, Matthew	PI	Rio Tinto Kennecott		Improving Vegetation Establishment on Kennecott Mine Waste Rock Dumps and Tailings: Second Agreement	Jan-23	Dec-25	R0602709	\$133,560
Madsen, Matthew	PI	University of Nevada, Reno		Development of seed coating technologies and planting equipment to improve the seeding success of winterfat ( <i>Krascheninnikovia lanata</i> )	Aug-23	Sep-26	R0802055	\$41,815
Maughan, Jeff	PI	Department of Agriculture		Sequencing and assembly of cereal wild relatives genomes	Apr-22	Dec-25	R0152023	\$40,000
Maughan, Jeff	PI	Department of Agriculture		Application of enhanced sequencing techniques	Jul-20	Jun-24	R0152017	\$25,000
McMillan, Brock	COI	Army, Dugway Proving Grounds	Department of Defense	Monitoring of Natural Resources with Remote Cameras, Photo Database and Automation Algorithm- Dugway Proving Ground, UT	Sep-19	Mar-25	R0202529	\$25,000
Petersen, Steven	COI	Rio Tinto Kennecott		Improving Vegetation Establishment on Kennecott Mine Waste Rock Dumps and Tailings: Second Agreement	Jan-23	Dec-25	R0602709	\$133,241
<b>Public Health</b>								
Beard, John	COI	Utah Department of Environmental Quality	Environmental Protection Agency	Radon Testing in K-12 Schools in Rural/Low-Income Areas in Utah	Jul-23	Dec-23	R0303176	\$1,500
Beard, John	PI	University of Utah Rocky Mountain Center for Occupational and Environmental Health	Centers for Disease Control and Prevention	Sustainable, Low-cost, Radon Mitigation Strategies for K-12 Schools and Employees	Jul-23	Jun-24	R0303206	\$4,497
Johnston, Jim	PI	Utah Department of Environmental Quality	Environmental Protection Agency	Radon Testing in K-12 Schools in Rural/Low-Income Areas in Utah	Jul-23	Dec-23	R0303176	\$1,500
Johnston, Jim	COI	University of Utah Rocky Mountain Center for Occupational and Environmental Health	Centers for Disease Control and Prevention	Sustainable, Low-cost, Radon Mitigation Strategies for K-12 Schools and Employees	Jul-23	Jun-24	R0303206	\$4,365
Nelson, Erik	PI	Indiana University	National Institutes of Health	Examining the daily stress of mid-life adults in the built and natural environment	Dec-22	Nov-23	R0303138	\$16,757
Nelson, Erik	PI	Virginia Commonwealth University	National Institutes of Health	Assessing residential neighborhood exposome exposures and the associations with cancer incidence	Jul-23	Jun-24	R0303205	\$23,782
Sloan, Chantel	COI	Merck		Overcoming barriers to HPV vaccine acceptance among Hispanic Immigrants to the US	Jan-23	Jan-25	R0602701	\$38,904
Spruance, Lori	PI	Dairy West		Milk Waste Study for Weber School District	Jan-23	Jun-23	R0502387	\$9,270
Spruance, Lori	PI	Dairy West		Milk Waste Study for Weber School District	Jan-23	Jun-23	R0502387	\$6,700
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-24	R0303086	\$74,655



# MARRIOTT SCHOOL OF BUSINESS



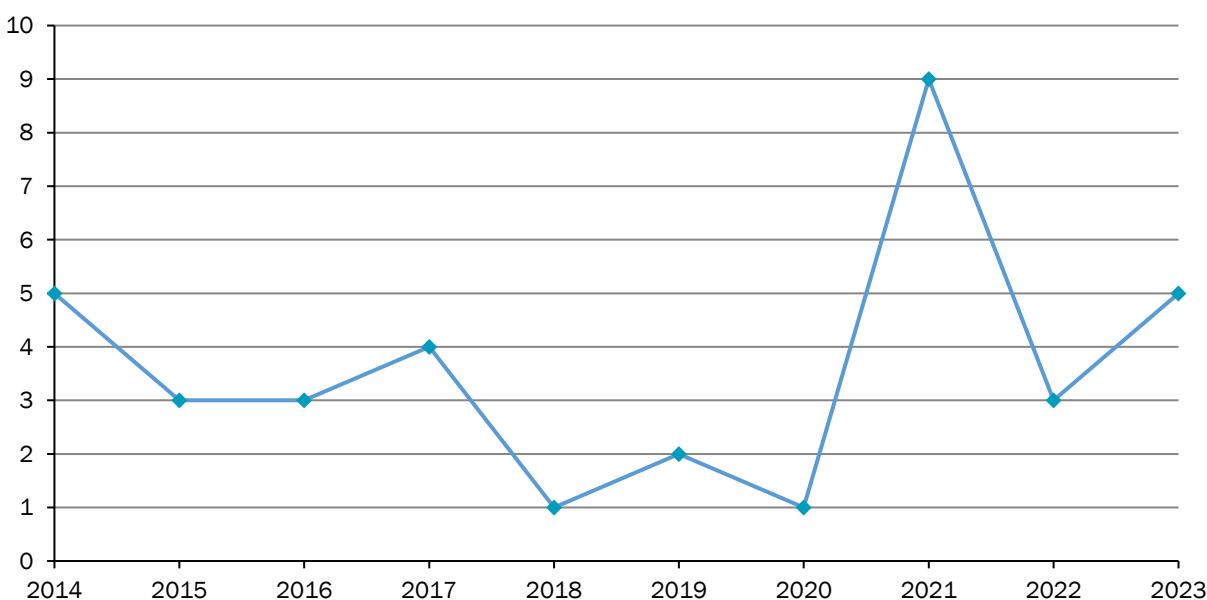


# Summary by Departments

Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards*	Dollars Awarded*
School of Accountancy	1	1	0	\$0
Ballard Center for Social Impact	0	0	0	\$0
Finance & Managerial Economics	0	0	0	\$0
Global Management Center	0	0	1	\$290,466
Information Systems	2	3	3	\$270,600
Management	1	1	0	\$0
Marketing & Global Supply Chain	0	0	0	\$0
Romney Institute of Public Management	0	0	3	\$328,664
<b>TOTALS</b>	<b>4</b>	<b>5</b>	<b>7</b>	<b>\$889,730</b>

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

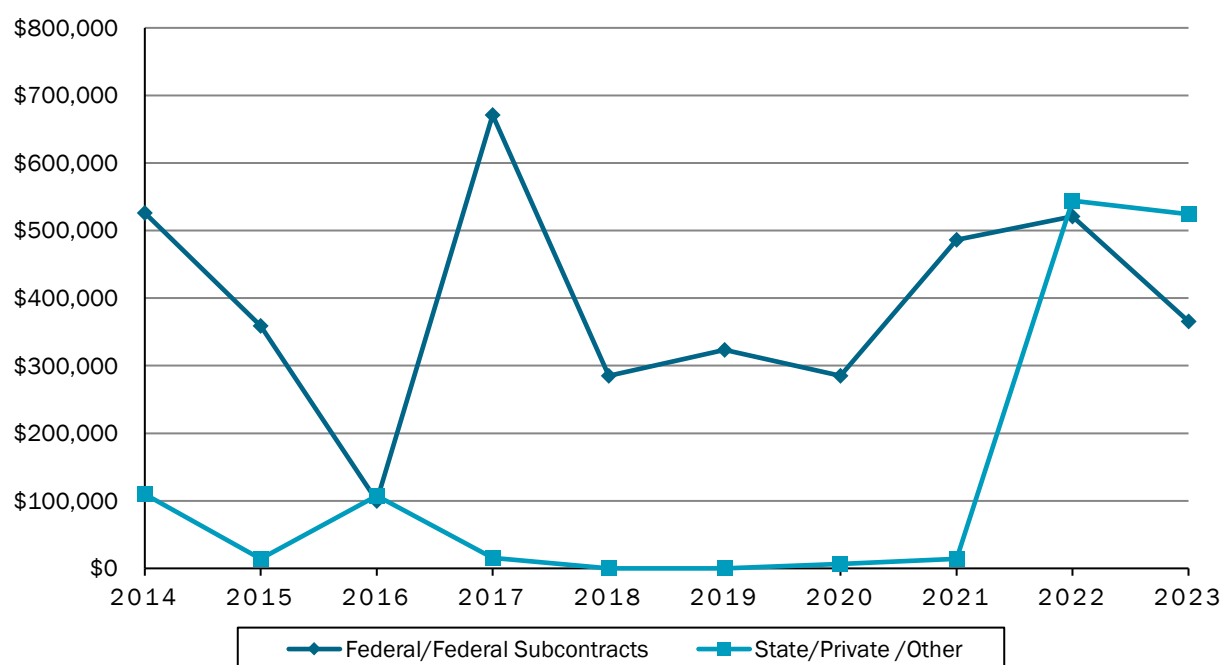
## Proposal Submissions





# Awards by Sources

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private /Other	
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
2023	\$365,466	\$524,264	\$889,730



# Marriott School of Business

## 2023 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>
<b><i>Global Management Center</i></b>								
Money, Bruce	PI	Department of Education		2022-2026 Center for International Business Education Grant	Oct-22	Sep-24	R0132025	\$290,466
<b><i>Information Systems</i></b>								
Giboney, Justin	COI	Utah State Board of Education		Understanding and Improving Information Privacy Decision Making In Utah State Schools	Aug-22	Aug-23	R0402393	\$97,800
Giboney, Justin	PI	National Security Agency		Brigham Young University-GenCyber 2023 Teacher Camp	Aug-23	Aug-25	R0202600	\$53,655
Giboney, Justin	PI	National Security Agency		Brigham Young University-GenCyber 2023 Teacher Camp-Participant Support	Aug-23	Aug-25	R0202601	\$21,345
Keith, Mark	PI	Utah State Board of Education		Understanding and Improving Information Privacy Decision Making In Utah State Schools	Aug-22	Aug-23	R0402393	\$97,800
<b><i>Romney Institute of Public Service &amp; Ethics</i></b>								
Heist, Dan	PI	Association of Fundraising Professionals		Raising Donor-Advised Fund (DAF) Dollars: Best Practices from Experienced Fundraisers	Dec-22	Dec-23	R0502385	\$8,000
Heist, Dan	PI	Bill & Melinda Gates Foundation		Donor Advised Funds Research Collaborative National Study	Oct-22	Sep-24	R0502378	\$259,907
Owens, Brad	PI	Georgia State University	John Templeton Foundation	Exploring Interventions for the Development of Intellectual Humility in Leadership	Jul-22	Jun-24	R0502374	\$60,757



# COLLEGE OF NURSING



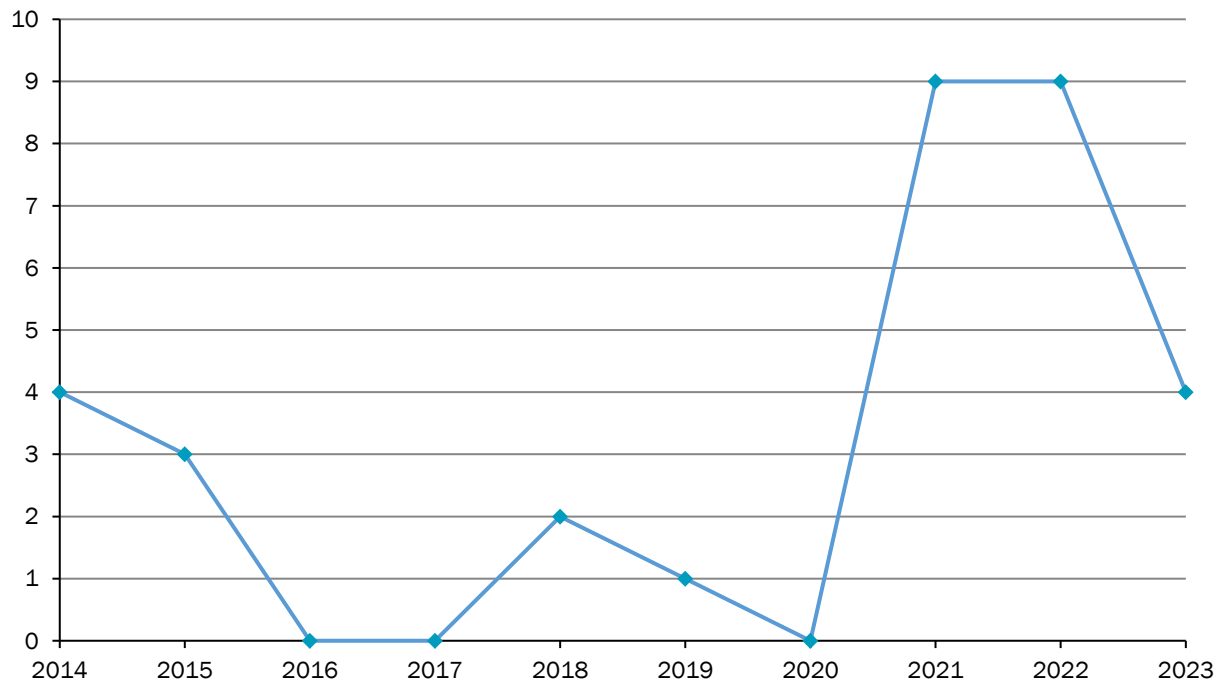


# Summary by Departments

Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards*	Dollars Awarded*
Nursing	3	4	0	\$0
<b>TOTALS</b>	3	4	0	\$0

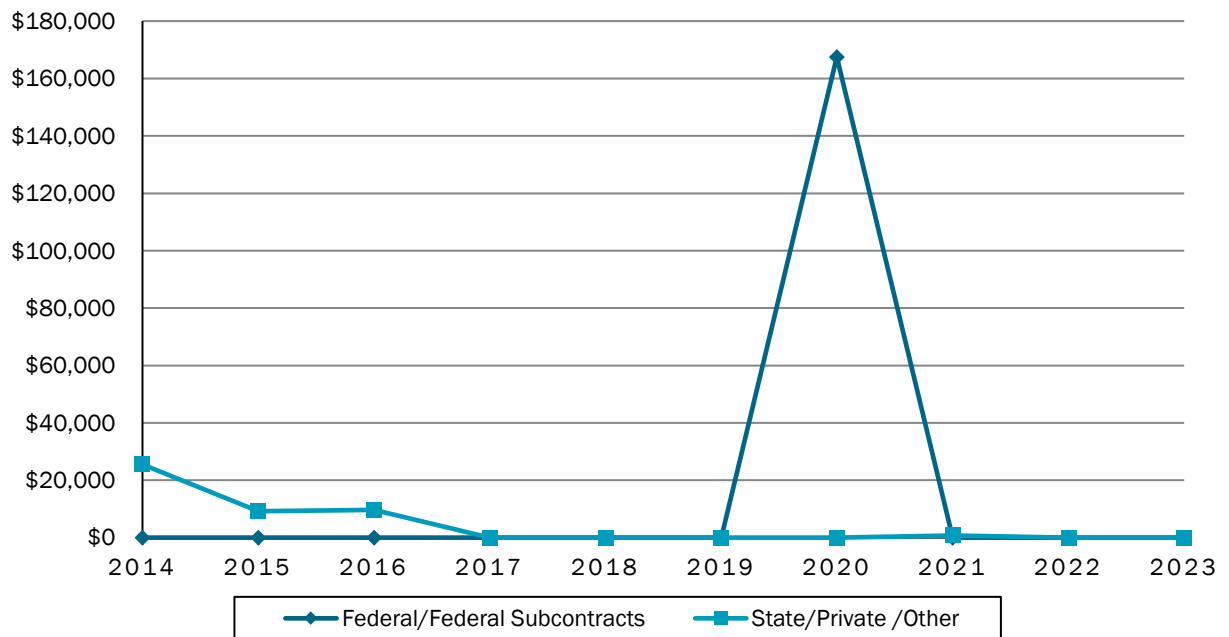
\*Number of Awards are counted by PI only, while total Dollars Awarded is split between all researchers

## Proposal Submissions



# Awards by Sources

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private /Other	
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
2023	\$0	\$0	\$0





# COLLEGE OF PHYSICAL AND MATHEMATICAL SCIENCES





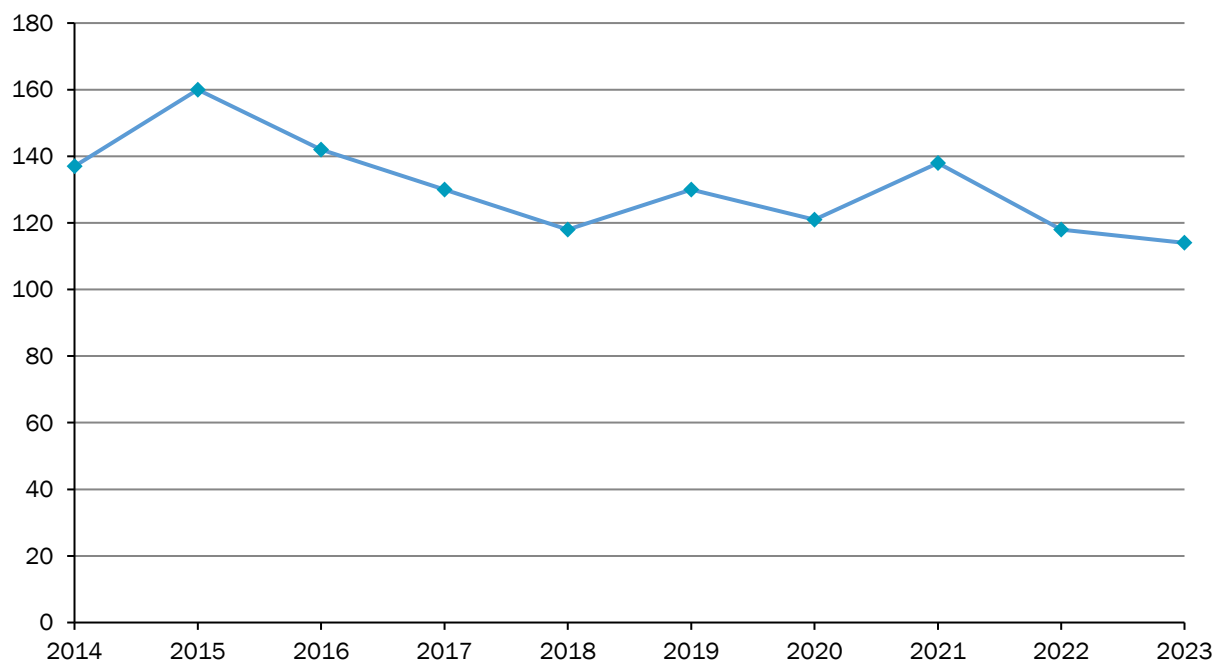


# Summary by Departments

Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards*	Dollars Awarded*
Chemistry & Biochemistry	25	39	34	\$5,458,411
Computer Science	10	15	4	\$1,205,650
Geology	6	12	7	\$466,114
Mathematics	10	12	5	\$182,056
Mathematics Education	2	2	2	\$44,000
Physics & Astronomy	18	32	32	\$3,355,586
Statistics	2	2	2	\$274,174
<b>TOTALS</b>	<b>73</b>	<b>114</b>	<b>86</b>	<b>\$10,985,991</b>

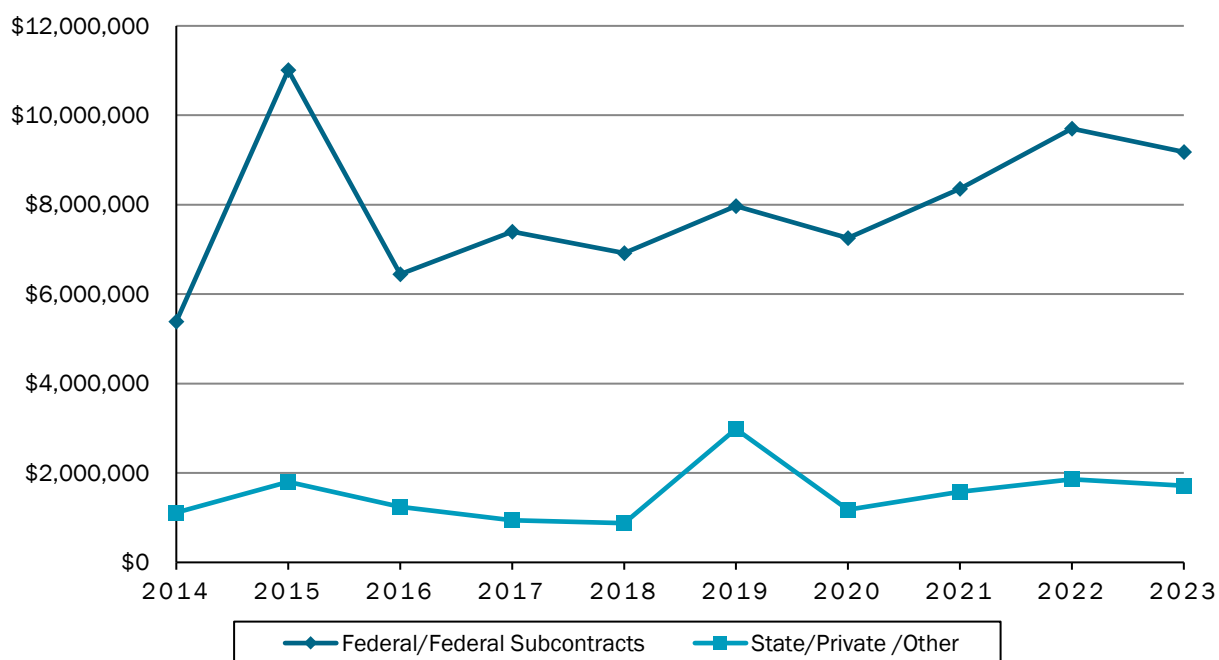
\*Number of Awards are counted by PI only, while total Dollars Awarded is split between all researchers

# Proposal Submissions



# Awards by Sources

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private /Other	
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
2023	\$9,179,827	\$1,806,164	\$10,985,991



# College of Physical & Mathematical Sciences 2023 Awards

Researcher	Role	Sponsor	Prime Sponsor	Title	Beg Date	End Date	Account	Amount
<b><i>Chemistry &amp; Biochemistry</i></b>								
Andersen, Josh	PI	National Institutes of Health		The regulation and function of the ubiquitin-sensing kinase TNK1	Sep-22	Jun-24	R0102120	\$310,129
Andersen, Josh	COI	National Institutes of Health		Advanced Sample Preparation, Separation and Multiplexed Analysis for In-Depth Proteome Profiling of >1000 Single Cells Per Day	Aug-23	Jul-24	R0102129	\$175,037
Castle, Steven	PI	National Science Foundation		No Catalyst Required: New Thermally-Promoted Transformations of Iminyl Radicals for the Synthesis of Complex Molecules	Aug-23	Jul-26	R0112517	\$554,751
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-24	R0302983	\$57,123
Christensen, Ken	PI	Clemson University	National Institutes of Health	Enolase inhibitors as therapeutic leads for Naegleria fowleri infections	Jun-23	May-24	R0303172	\$5,182
Christensen, Ken	COI	National Institutes of Health		High Density 3D Printed Microfluidics for Cell-Based Biomedical Applications	Sep-23	Aug-26	R0102131	\$144,199
Christensen, Ken	PI	Boston Children's Hospital	National Institutes of Health	Targeting CMG2 to treat endometriosis-associate pain	Sep-22	Aug-24	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-24	R0303116	\$73,119
Ess, Dan	PI	Chevron Phillips Chemical		Optimization of Homogeneous Alpha Olefin Catalysts	Dec-13	Dec-23	R0602446	\$350,000
Ess, Dan	PI	National Science Foundation		Dynamics of Organometallic Reaction Mechanisms	Sep-23	Aug-26	R0112512	\$298,947
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-24	R0302902	\$32,144
Ess, Dan	PI	Department of Energy		Theory of Main-group, P-Block Hydrocarbon Functionalization Reactions	Sep-17	Sep-24	R0202502	\$68,137
Ess, Dan	PI	Utah State University	National Institutes of Health	Nickel Catalyzed Electrochemical C-C Cross-Coupling Reactions	Aug-21	Jun-24	R0303016	\$42,247
Hansen, Jaron	PI	Aqua Environmental Services		Thermophilic bacterial pretreatment of lignocellulosic and wet waste for increased biogas production	Nov-19	Jun-24	R0602622	\$10,000
Hansen, Jaron	PI	National Science Foundation		COLLABORATIVE RESEARCH: Verification of Atmospheric Mercury Redox Rates	Sep-23	Aug-26	R0112527	\$178,063
Jensen, Grant	COI	Silicon Valley Community Foundation		Expanding Collaboration With Image AI Scientist to Increase the Impact of Advanced Imaging	Mar-23	Feb-25	R0502386	\$105,868

Jensen, Grant	PI	National Institutes of Health		Structure and function of pathogenesis-associated bacterial structures by electron cryotomography	Apr-22	Mar-24	R0102117	\$369,480
Jensen, Grant	PI	National Institutes of Health		Expansion of the 'Getting Started in Cryo-EM' course into a comprehensive theory and practice curriculum	Mar-23	Mar-23	R0102126	\$51,786
Jensen, Grant	PI	National Institutes of Health		Expansion of the 'Getting Started in Cryo-EM' course into a comprehensive theory and practice curriculum	Apr-23	Mar-24	R0102126	\$124,200
Johnson, Jeremy	PI	National Science Foundation		Repurposing Crystalline Materials for Strong Terahertz Generation	Sep-21	Aug-24	R0112465	\$94,529
Kelly, Ryan	COI	National Institutes of Health		Biochemical Consequences of Regiospecific Metabolic Bias in the Brain	May-20	Feb-24	R0102103	\$146,072
Kelly, Ryan	COI	National Institutes of Health		Enhanced Sensitivity and Quantitative Precision for Single Cell Proteomics	Sep-22	May-24	R0102125	\$150,219
Kelly, Ryan	PI	National Institutes of Health		Fully Automated and Ultra-high Throughput Platform for In-depth Single Cell Proteomics	Sep-20	Aug-24	R0102106	\$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-24	R0102121	\$173,525
Kelly, Ryan	PI	National Institutes of Health		Advanced Sample Preparation, Separation and Multiplexed Analysis for In-Depth Proteome Profiling of >1000 Single Cells Per Day	Aug-23	Jul-24	R0102129	\$180,341
Kelly, Ryan	PI	Mayo Clinic	National Institutes of Health	Mayo Clinic Center for Clinical Proteomics	Jun-22	May-24	R0303105	\$86,571
Kelly, Ryan	PI	National Institutes of Health		Fully Automated and Ultra-high Throughput Platform for In-depth Single Cell Proteomics	Sep-20	Aug-24	R0102106	\$125,000
Michaelis, David	COI	National Science Foundation		Repurposing Crystalline Materials for Strong Terahertz Generation	Sep-21	Aug-24	R0112465	\$94,529
Price, John	PI	University of Utah	National Institutes of Health	LOOH-induced muscle atrophy with age	Feb-22	Nov-23	R0303084	\$11,172
Price, John	PI	National Institutes of Health		Biochemical Consequences of Regiospecific Metabolic Bias in the Brain	May-20	Feb-24	R0102103	\$146,072
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-24	R0302983	\$57,123
Price, John	COI	Boston Children's Hospital	National Institutes of Health	Targeting CMG2 to treat endometriosis-associated pain	Sep-22	Aug-24	R0303115	\$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-24	R0303116	\$73,119
Sansom, Rebecca	PI	National Science Foundation		Developing Three-dimensional Science Teachers in Underserved Rural Settings	Sep-21	Aug-25	R0112460	\$211,279
Sansom, Rebecca	PI	National Science Foundation		Developing the Pedagogical Skills and Science Expertise of Teachers in Underserved Rural Settings	Sep-21	Aug-25	R0112461	\$69,004

Savage, Paul	PI	N8 Medical	National Institutes of Health	Ceragenin-based antimicrobial coating to tackle hemodialysis catheter-related infections	Sep-22	Aug-23	R0303136	\$45,000
Savage, Paul	PI	N8 Medical	National Institutes of Health	Ceragenin-based coating to tackle implant-associated infections	Dec-22	Nov-23	R0303139	\$44,724
Savage, Paul	PI	Scripps Research Institute	National Institutes of Health	Mechanistic studies of combination adjuvants to target B cells in vaccines	Apr-23	Mar-24	R0303152	\$90,000
Savage, Paul	PI	N8 Medical		Collection Account for Royalty Payments	May-4	Dec-23	R0802005	\$12,500
Savage, Paul	PI	Scripps Research Institute	National Institutes of Health	Multidimensional development of high-affinity anti-glycan antibodies to fight deadly bacterial infections	May-23	Apr-24	R0303171	\$192,026
Savage, Paul	PI	N8 Medical		Collection Account for Royalty Payments	May-4	Dec-23	R0802005	\$25,000
Savage, Paul	PI	N8 Medical		Collection Account for Royalty Payments	May-4	Dec-23	R0802005	\$12,500
Watt, Richard	PI	Cures Within Reach		Treating Anemia in Myelofibrosis with Repurposed Drugs that Inhibit Furin to Block Cleavage of Prohepcidin to Hepcidin	Sep-23	Aug-26	R0502397	\$60,000
Woolley, Adam	COI	National Institutes of Health		High Density 3D Printed Microfluidics for Cell-Based Biomedical Applications	Sep-23	Aug-26	R0102131	\$144,199
Woolley, Adam	COI	National Institutes of Health		3D printed, multi-material microfluidic calorimetry: Critical tools to study protein stability	Sep-22	Aug-25	R0102124	\$3,327

#### ***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-24	R0302806	\$92,089
Goodrich, Michael	COI	Carnegie Mellon University	Office of Naval Research	Success: Self-Assessment and Understanding of Competence and Conditions to Ensure System Success	Jun-18	May-24	R0302806	\$92,089
Grimsman, David	PI	Achilles Heel Technologies, LLC	Department of Energy	Attack Surface Modeling for Situational Awareness and Vulnerability Analysis of Power Systems	Oct-22	Sep-24	R0303137	\$307,000
Morse, Bryan	COI	Silicon Valley Community Foundation		Expanding Collaboration With Image AI Scientist to Increase the Impact of Advanced Imaging	Mar-23	Feb-25	R0502386	\$105,868
Snell, Quinn	PI	Sandia National Laboratories		Capstone Project	Sep-23	Aug-24	R0303170	\$10,000
Warnick, Sean	PI	Department of Homeland Security		Sean Warnick Intergovernmental Personnel Act (IPA) Assignment from DHS	Jan-22	Jan-25	R0202565	\$598,604

**Geology**

Carling, Greg	PI	National Science Foundation		Collaborative Research: Network Cluster: Dust in the Critical Zone from the Great Basin to the Rocky Mountains	Sep-21	Aug-25	R0112444	\$64,019
Hudson, Sam	PI	Dominion Energy Wexpro		Geologic Mapping of the Chicken Springs SE quadrangle, southern Wyoming	Feb-22	Jun-24	R0602679	\$12,878
Hudson, Sam	PI	Zanskar Geothermal & Minerals		Basin-Centered Sedimentary Geothermal Systems of the Basin and Range: Phase 2	May-23	Dec-24	R0602716	\$25,134
Hudson, Sam	PI	ConocoPhillips		Outcrop Characterization of Brookian Deltaic Topsets of the Nanushuk Formation - Understanding Facies Heterogeneity, Sedimentation Patterns and Shoreline Evolution Within the Colville Basin, Alaska	Jun-20	Dec-22	R0602590	\$183,688
LeMonte, Josh	COI	Rio Tinto Kennecott		Improving Vegetation Establishment on Kennecott Mine Waste Rock Dumps and Tailings: Second Agreement	Jan-23	Dec-25	R0602709	\$133,241
Nelson, Steve	PI	South Davis Sewer District		An Evaluation of the Trophic Status and Algal Productivity of Utah Lake	Jul-18	Nov-24	R0492048	\$17,250
Radebaugh, Jani	PI	Johns Hopkins University	National Aeronautics and Space Administration	Dragonfly Rotorcraft Lander for Titan - Phase B Addition	Apr-22	Jan-23	R0303070	\$4,483
Radebaugh, Jani	PI	Johns Hopkins University	National Aeronautics and Space Administration	Dragonfly Rotorcraft Lander for Titan - Phase B Addition	Apr-22	Jun-23	R0303070	\$25,421

**Mathematics**

Allen, Mark	PI	Simons Foundation		Nonlocal Equations and Free Boundary Problems	Sep-19	Dec-27	R0502315	\$8,400
Andersen, Nick	PI	Simons Foundation		Arithmetic applications of automorphic forms	Sep-21	Dec-27	R0502351	\$8,400
Hughes, Mark	PI	National Science Foundation		Moab Topology Conference 2023	May-23	Apr-24	R0112514	\$12,711
Hughes, Mark	PI	National Science Foundation		Moab Topology Conference 2023	May-23	Apr-24	R0112515	\$26,500
Jarvis, Tyler	COI	Tula Health, Inc.		TULA health - Non-Invasive health sensing	Apr-21	Aug-25	R0602659	\$117,645
Nielsen, Pace	PI	Simons Foundation		Computational Number Theory and Ring Theory	Sep-22	Aug-23	R0502380	\$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-24	R0112501	\$22,000
Teuscher, Dawn	PI	National Science Foundation		Collaborative Research: Quantifying Curricular Reasoning as a Critical Practice in Teaching Mathematics- Participant Costs	Aug-22	Jul-24	R0112502	\$22,000

### Physics & Astronomy

Allred, David	PI	National Aeronautics and Space Administration		Advanced A1 mirrors with passivated LiF for environmentally stable 1-meter class UV space telescopes	Jan-23	Jan-26	R0162046	\$62,287
Anderson, Brian	COI	Michigan State	National Institutes of Health	Protecting Teacher's Voices: Investigating Risk Factors, Conducting Analysis	May-21	Dec-23	R0302986	\$74,484
Anderson, Brian	PI	Sandia National Laboratories	Department of Energy	Acoustic time reversal for broadband random environments	Mar-22	Sep-24	R0303050	\$56,600
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-24	R0302987	\$18,280
Davis, Robert	PI	Tula Health, Inc.		TULA health - Non-Invasive health sensing	Apr-21	Aug-25	R0602659	\$121,210
Frandsen, Benjamin	PI	Department of Energy		Probing Short-Range Structure and Magnetism In Next-Generation Energy Conversion Materials	Sep-21	Aug-24	R0202542	\$156,166
Gee, Kent	PI	Office of Naval Research		Connecting analyses of installed tactical jet engine noise with simulated and laboratory-scale data.	Dec-20	Dec-23	R0202547	\$12,000
Gee, Kent	PI	Office of Naval Research		Connecting analyses of installed tactical jet engine noise with simulated and laboratory-scale data.	Dec-20	Dec-23	R0202547	\$12,000
Gee, Kent	PI	Vandenberg Air Force Base	Army	ASSESSING THE INFLUENCE OF SPACE LAUNCH AND LANDING NOISE ON SPECIES OF CONCERN AT VANDENBERG SPACE FORCE BASE	Feb-23	Feb-24	R0202585	\$202,022
Gee, Kent	PI	Office of Naval Research		Connecting analyses of installed tactical jet engine noise with simulated and laboratory-scale data.	Dec-20	Dec-23	R0202547	\$194,632
Gee, Kent	COI	Northrop Grumman		Rocket noise source characterization using large band-width intensity probes	Mar-23	Jun-24	R0602715	\$53,500
Gee, Kent	PI	Analytical Mechanics Associates	National Aeronautics and Space Administration	MEASUREMENTS AND ANALYSES SUPPORTING NASA IN ITS QUEST	Jun-23	Jun-23	R0303159	\$5,000
Gee, Kent	PI	Analytical Mechanics Associates	National Aeronautics and Space Administration	MEASUREMENTS AND ANALYSES SUPPORTING NASA IN ITS QUEST	Jun-23	Jul-23	R0303159	\$15,000
Gee, Kent	PI	National Aeronautics and Space Administration		Fellowship - Advanced Air Vehicles Program	Sep-23	Sep-24	R0162555	\$64,000
Gee, Kent	PI	Analytical Mechanics Associates	National Aeronautics and Space Administration	MEASUREMENTS AND ANALYSES SUPPORTING NASA IN ITS QUEST	Jun-23	Sep-24	R0303159	\$164,183
Gee, Kent	PI	ENSCO, Inc.		Launch vehicle acoustic modeling	Sep-23	Aug-24	R0303189	\$59,044
Hart, Grant	COI	Vandenberg Air Force Base	Army	ASSESSING THE INFLUENCE OF SPACE LAUNCH AND LANDING NOISE ON SPECIES OF CONCERN AT VANDENBERG SPACE FORCE BASE	Feb-23	Feb-24	R0202585	\$202,022
Hart, Grant	COI	ENSCO, Inc.		Launch vehicle acoustic modeling	Sep-23	Aug-24	R0303189	\$59,044



Hart, Gus	PI	Silicon Valley Community Foundation		Expanding Collaboration With Image AI Scientist to Increase the Impact of Advanced Imaging	Mar-23	Feb-25	R0502386	\$109,076
Neilsen, Traci	PI	Office of Naval Research		Informational Geometry for Optimal Design of Geoacoustic Inversions	Jul-21	Jul-24	R0202555	\$59,266
Neilsen, Traci	PI	Office of Naval Research		Hybrid approach to seabed characterization using shipping noise	May-22	Apr-25	R0202570	\$85,000
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
Ragozzine, Darin	PI	National Aeronautics and Space Administration		DEEP Characterization of Trans-Neptunian Objects and Binaries	Sep-23	Aug-26	R0162051	\$36,272
Ragozzine, Darin	PI	Planetary Science Institute	National Aeronautics and Space Administration	Tools for Advanced Dynamical Characterization of Solar System Small Bodies - BYU Subcontract	Jul-23	Jul-25	R0303192	\$45,522
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	PI	SLAC National Accelerator Laboratory	Department of Energy	Development of high resolution, single shot, dynamic x-ray imaging	Feb-20	Sep-24	R0302895	\$22,000
Sandberg, Richard	PI	Department of Energy		Tracking intergranular strain dynamics with near-atomic scale coherent x-ray imaging at next generation light sources	Aug-21	Jul-24	R0202562	\$125,198
Sandberg, Richard	PI	SLAC National Accelerator Laboratory	Department of Energy	Development of high resolution, single shot, dynamic x-ray imaging	Feb-20	Sep-24	R0302895	\$22,000
Sandberg, Richard	PI	Los Alamos National Laboratory	Department of Energy	Diamond Detector Readout Electronics for X-Ray Ptychography	Sep-22	Nov-24	R0303106	\$45,848
Shepherd, Micah	PI	Northrop Grumman		Rocket noise source characterization using large band-width intensity probes	Mar-23	Jun-24	R0602715	\$53,500
Shepherd, Micah	COI	American Epilepsy Society		Novel Model to Study Refractory Status Epilepticus	Sep-23	Aug-24	R0502396	\$25,000
Sommerfeldt, Scott	COI	Caterpillar		Real-time detection of external speech signals in noise and further development of virtual cab audio technology	Jan-22	Dec-23	R0602681	\$54,863
Transtrum, Mark	PI	Cornell University	National Science Foundation	Center for Bright Beams	Oct-16	Sep-23	R0302718	\$80,902
Transtrum, Mark	COI	Office of Naval Research		Informational Geometry for Optimal Design of Geoacoustic Inversions	Jul-21	Jul-24	R0202555	\$59,266
Transtrum, Mark	COI	National Institutes of Health		Biochemical Consequences of Regiospecific Metabolic Bias in the Brain	May-20	Feb-24	R0102103	\$146,072
Transtrum, Mark	PI	National Science Foundation		Collaborative Research: CPS: Medium: Data Driven Modeling and Analysis of Energy Conversion Systems – Manifold Learning and Approximation	Jun-23	May-26	R0112518	\$397,875
Transtrum, Mark	PI	National Science Foundation		Collaborative Research: Reliable Materials Simulation based on the Knowledgebase of Interatomic Models (KIM)	Oct-18	Mar-24	R0112397	\$56,176

Transtrum, Mark	PI	Lawrence Livermore National Labs	Department of Energy	Predictive Atomistic Materials Simulations with Uncertainty Quantification	Dec-22	Sep-24	R0303135	\$101,305
Vanfleet, Richard	PI	Varex Imaging Corporation		Carbon Nanotube Templated Micro-fabrication for field emitters	Aug-22	Dec-23	R0602706	\$70,000
Vanfleet, Richard	COI	Tula Health, Inc.		TULA health - Non-Invasive health sensing	Apr-21	Aug-25	R0602659	\$117,645
Verhaaren, Chris	PI	National Science Foundation		Uncovering Physics Beyond the Standard Model	Aug-22	Jul-25	R0112505	\$75,000

#### **Statistics**

Heaton, Matt	PI	University of Utah	National Aeronautics and Space Administration	Historical and Future Precipitation and Glacier Changes in High Mountain Asia	Aug-20	Aug-23	R0302960	\$41,158
Petersen, Alexander	PI	National Science Foundation		Graphical Modeling of High-Dimensional Functional Data: Separability Structures and Unified Methodology under General Observational Designs	Aug-23	Jul-26	R0112522	\$178,859
Reese, Shane	COI	University of Utah	National Aeronautics and Space Administration	Historical and Future Precipitation and Glacier Changes in High Mountain Asia	Aug-20	Aug-23	R0302960	\$41,158
Warr, Richard	COI	Utah Department of Transportation		SPF Development and Research	Jan-23	Sep-23	R0402394	\$13,000



# RELIGIOUS EDUCATION



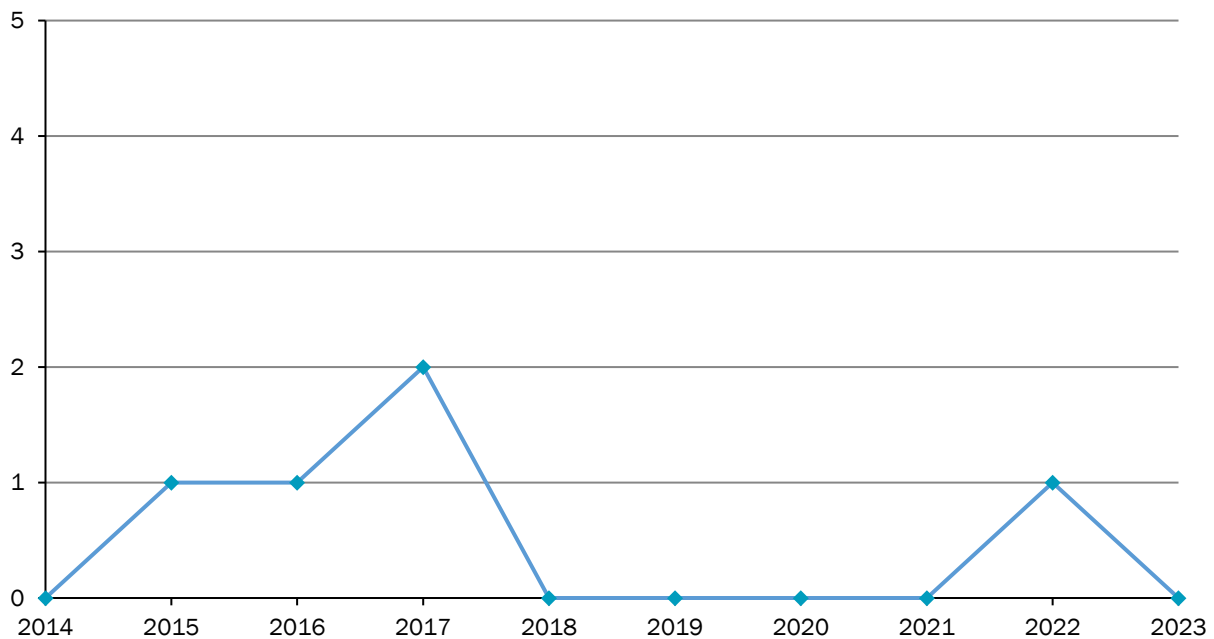


# Summary by Departments

Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards*	Dollars Awarded*
Ancient Scripture	0	0	0	\$0
Church History & Doctrine	0	0	1	\$166,063
<b>TOTALS</b>	0	0	1	\$166,063

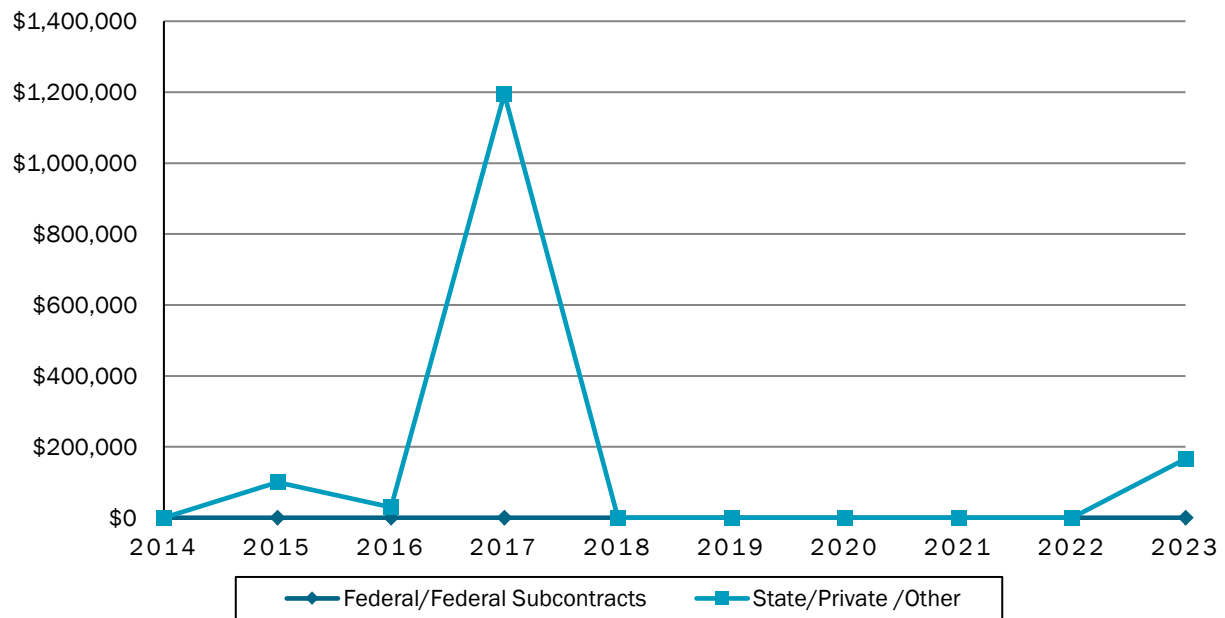
\*Number of Awards are counted by PI only, while total Dollars Awarded is split between all researchers

## Proposal Submissions



# Awards by Sources

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private /Other	
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
2023	\$0	\$166,063	\$166,063



# Religious Education 2023 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>Church History &amp; Doctrine</i>								
Reed, Andrew	PI	The Arthur Vining Davis Foundation		Building Interfaith Leaders for Future Service to the World	Jul-23	May-26	R0502394	\$166,063





# NON-COLLEGE UNITS



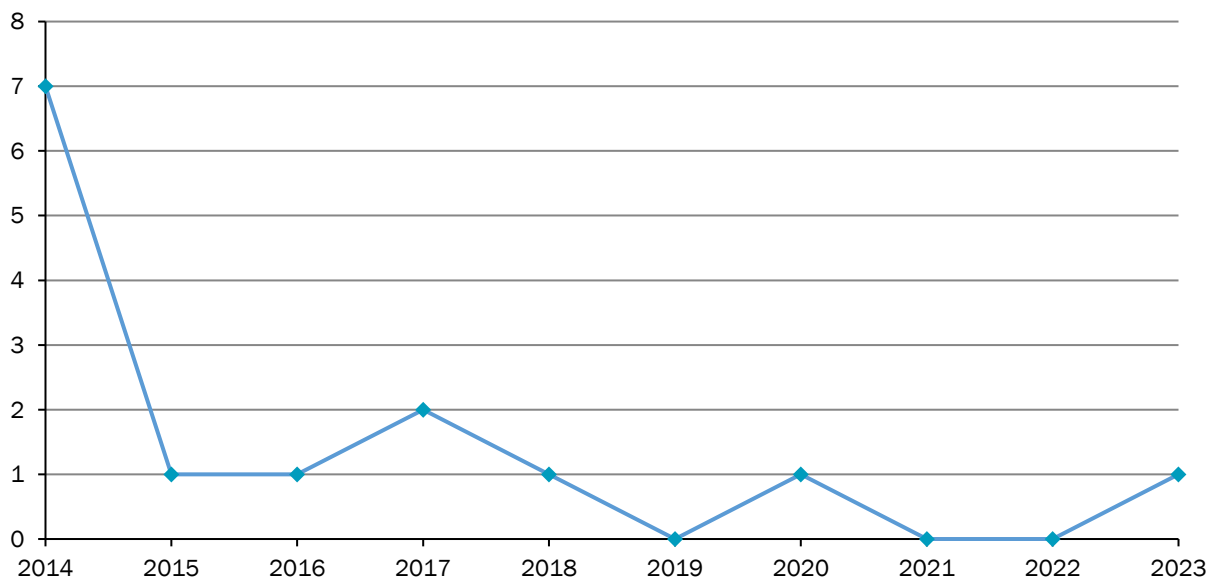


# Summary by Units

Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards*	Dollars Awarded*
Harold B. Lee Library	0	0	0	\$0
BYU Police	1	1	1	\$30,000
Research Administration Office	0	0	0	\$0
<b>TOTALS</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>\$30,000</b>

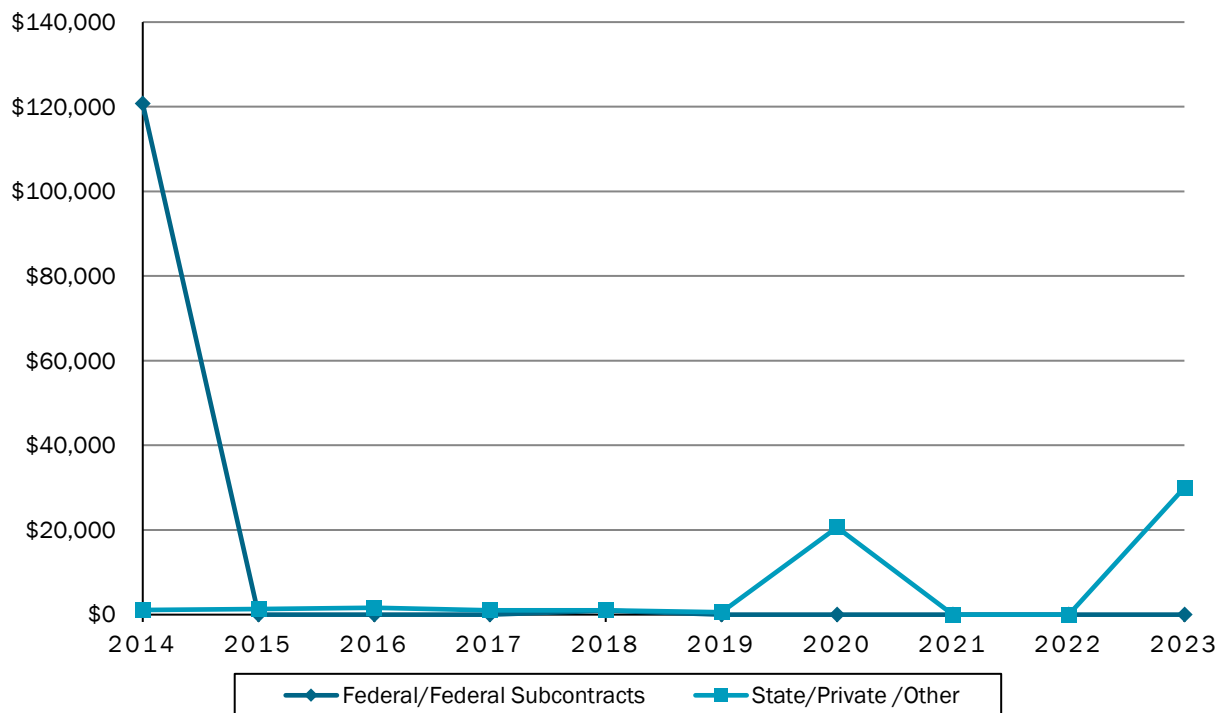
\*Number of Awards are counted by PI only, while total Dollars Awarded is split between all researchers

## Proposal Submissions



# Awards by Sources

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private /Other	
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
2023	\$0	\$30,000	\$30,000



# Non-College Units 2023 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>
<b><i>BYU Police</i></b>								
Raab, Wade	PI	State of Utah		Grant funding application to provide mental health resources for first responders	Sep-23	Sep-25	R0402401	\$30,000





# 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 2023 through December 2023 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 2023, the IACUC accomplished the following:

- 10 IACUC meetings
- Maintained 70 active IACUC protocols
- Processed over 200 submissions, including 24 new protocols, 15 study amendments, 114 personnel amendments, and 64 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 2023, the IBC accomplished the following:

- 5 IBC meetings
- Maintained 59 active IBC protocols
- Processed over 40 submissions, including 8 new protocols, 2 study amendments, 5 personnel amendments, along with other administrative actions

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

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

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

The table below includes the number of human research study transactions in 2023.

2023 Total Number of Applications	
Total Number of New Applications Submitted	427
Number of Applications Approved	379
Number of Modifications to Approved Studies	471
Number of Modifications Approved	485
Continuing Reviews Processed	80
Number of Submission Corrections	1051
Adverse Event Reports	8
<b>Total Number of Protocol Transactions</b>	<b>2901</b>

# 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 Office of the General Counsel for coordination of certain contracts, with the Grants & Contracts Accounting Office for post-award grant and contract administration, and with the Faculty Personnel Office for payment of research compensation.

## Personnel

Director: Gene Larson

Associate Director, Sponsored Projects: Debbie Silversmith

Research Administrator: Susie Quartey

Research Administrator: Maren Britt

Administrative Assistant: Maria Kim

Associate Director, HRPP: Sandee Aina

IRB Administrator: Wayne Larsen

IRB AM Coordinator: Stephanie Coyne

IRB PM Coordinator: Emily Gneiting

Associate Director, IACUC/IBC: Jason Jay

IACUC/IBC Coordinator: Regina McCarthy

University Veterinarian & Associate Director, LARC: Sandy Garrett

LARC Manager: Tarra Anderson

Assistant LARC Manager: Lindsey Edwards

Business Systems Analyst: Audrey Coria

- 1) Policy Review and Development
  - ◆ Develop policies and procedures to foster research.
  - ◆ Publish policy 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.
  - ◆ Assist as needed Research Development to disseminate information on funding opportunities to faculty.
  - ◆ Review funding opportunities to interpret and determine eligibility
- 3) Proposal Preparation and Submission
  - ◆ Provide support for faculty in using Kuali Research.
  - ◆ Coordinate the preparation of large, inter-collegiate, and inter-institutional research proposals.
  - ◆ Assist with proposal budgets, determining most appropriate budget categories to be used.
  - ◆ Assist in creating, reviewing, approving, and submitting proposals in Kuali Research and to sponsors.
- 4) Negotiating and Interacting with Sponsors
  - ◆ Negotiate and manage grants and contracts, at the onset and throughout the life of each project.
  - ◆ Submit prior approval requests to sponsors.
  - ◆ Interface with sponsoring agencies to maintain awareness of research funding trends.
- 5) Compliance with Federal Regulations and Other Requirements
  - ◆ Monitor government regulations pertaining to federal grants and contracts.
  - ◆ Educate faculty on federal regulations at proposal and award.
  - ◆ At project closeout, work with Fixed Asset Management regarding government property to assure compliance with federal regulations.
  - ◆ Assure project compliance with reporting requirements and manage closeout documentation.
  - ◆ Oversee three compliance committees and assist them through secretarial support for meetings, correspondence, and protocol approval.
- 6) Negotiating and Interfacing with Subawardees and Subcontractors
  - ◆ Negotiate terms of agreements.
  - ◆ Monitor agency regulations and BYU policy and procedures for stipulations concerning subawardees, subcontractors and independent consultants/contractors.

- ◆ Prepare contracts, amendments, facilitate execution and initiate processing through the university

#### 7) Project and Account Management (Post-Award)

- ◆ Control assignment of account numbers and coordinate activation with GCA.
- ◆ Coordinate contractual needs during the course of each project.
- ◆ Assist GCA with audits of project accounts.
- ◆ Assure compliance with reporting requirements and manage closeout documents.
- ◆ Act as a liaison between researchers and sponsors to facilitate management of projects.
- ◆ Coordinate re-budget requests with GCA, PI, and Sponsors.

#### 8) Financial Management

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

#### 9) University Negotiations/Trouble Shooting

- ◆ Participate in DHHS indirect costs justification.
- ◆ Direct negotiations with sponsors on 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.
- ◆ 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 Kuali HR feed on an as needed basis.





# APPENDIX 2



# Compliance Obligations (As Per Federal Statute or Regulation)

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

## ***Regulatory Framework***

- Uniform Guidance
- Federal Acquisition Regulations (FAR)
- Defense Federal Acquisition Regulations (DFAR)
- Department of Energy Acquisition Regulations (DEAR)
- USAID Acquisition Regulations (AIDAR)
- HIPPA
- FFATA
- ITAR/EAR/CUI
- RCR
- E-Verify
- The Coordinated Review Process-Executive Order 12372
- Rights to Inventions Made by Nonprofit Organizations and Small Business Firms
- Compliance Information for Specific Circumstances
  - Facilities Management
  - Historic Preservation
  - Paperwork Reduction Act

## ***Individual Rights***

- Antidiscrimination
  - Civil Rights Act of 1964—Title VI
  - Employment of the Handicapped-Rehabilitation Act of 1973
  - Americans with Disabilities Act
  - Title IX—Sex Discrimination
  - Age Discrimination
  - Equal Employment Opportunity
  - Affirmative Action for Special Disabled and Vietnam Era Veterans
  - Utilization of Women-Owned Small Business
  - Utilization of Labor Surplus Area Concerns
  - Utilization of Small and Small Disadvantaged Business Concerns

## ***Privacy***

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

***Protection Issues***

- Environmental Protection
  - Clean Air Act and Clean Water Act
  - Hazardous Materials
- Protection of Living Organisms
  - Human Subjects Compliance
  - Use of Animals in Research
  - Marine Mammal Act
  - Research Involving Recombinant DNA Molecules

***Employee Directives***

- Drug-free Workplace
- Drug-free Work Force
- Drug-free Schools and Campuses Act
- Lobbying
- Occupation Safety and Health
  - David Bacon Act
- Walsh-Healey Public Contracts Act
- Service Contract Act
- Contract Work Hours and Safety Standards Act of 1962

***Fraud, Waste, and Abuse***

- Misconduct in Science
- Procurement Integrity
- Debarment and Suspension
- Covenant Against Contingent Fees
- Anti-Kickback Act of 1986
- Officials Not to Benefit

***Specific Administrative Requirements***

- General Requirements
  - Buy American Act
  - Fly American Act
  - Competition in Contracting
  - Export Administration Act and Arms Export Control Act
  - Insurance-Immunity from Tort Liability
  - Prompt Payment
  - Non-delinquency of Federal Debt
  - Certificate of Current Cost and Pricing Data
  - Acknowledgment of Federal Grant Support (Stevens Amendment)