The 2021 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 2021 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, a few award transactions are not pulling into the Kuali Research Reports. We are continually fine tuning our award processing procedures to ensure accuracy of the Kuali Research Reports. If you have questions regarding any discrepancies between this PDF report and that which is displayed in Kuali Research, please let us know.

Thank you,

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



Table of Contents

Preface	5
The University	7
Information by College or School	17
David O. McKay School of Education	23
Ira A. Fulton College of Engineering	29
College of Family, Home, & Social Sciences	51
College of Fine Arts & Communications	57
College of Humanities	61
J. Reuben Clark Law School	67
College of Life Sciences	71
Marriot School of Business	85
College of Nursing	91
College of Physical & Mathematical Sciences	97
Religious Education	111
Non-College Units	
Compliance Committees	119
Appendix 1	123
Appendix 2	129

Preface

This report covers January 1, 2021, to December 31, 2021.

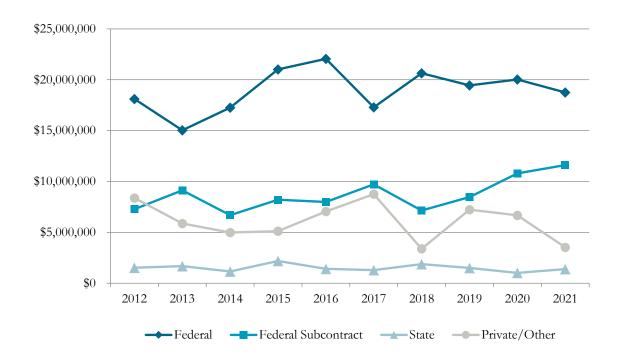
Included are a number of activities that are carried out by the Research Administration Office (RAO).

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



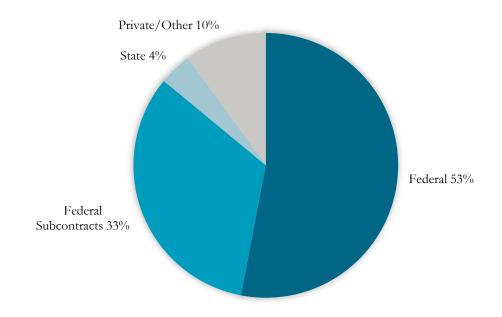
External Research Funding

			Grants/Contracts			
Year	Federal	Federal Subcontract	State	Private/Other	Total	%Federal
2012	\$18,110,757	\$7,282,203	\$1,523,034	\$8,379,690	\$35,295,684	72%
2013	\$15,034,387	\$9,126,548	\$1,679,472	\$5,871,718	\$31,712,125	76%
2014	\$17,260,137	\$6,693,946	\$1,151,886	\$4,984,448	\$30,090,417	79%
2015	\$21,015,987	\$8,205,836	\$2,192,841	\$5,115,501	\$36,433,016	80%
2016	\$22,056,396	\$7,987,588	\$1,411,764	\$7,051,367	\$38,507,115	78%
2017	\$17,293,839	\$9,715,815	\$1,290,090	\$8,756,281	\$37,056,025	73%
2018	\$20,636,221	\$7,147,550	\$1,876,552	\$3,386,457	\$33,046,780	84%
2019	\$19,445,058	\$8,469,044	\$1,502,620	\$7,231,977	\$36,648,699	76%
2020	\$20,024,907	\$10,794,493	\$1,020,133	\$6,672,388	\$38,511,921	80%
2021	\$18,753,261	\$11,614,913	\$1,389,487	\$3,526,316	\$35,283,976	86%



External Funds by Source-2021

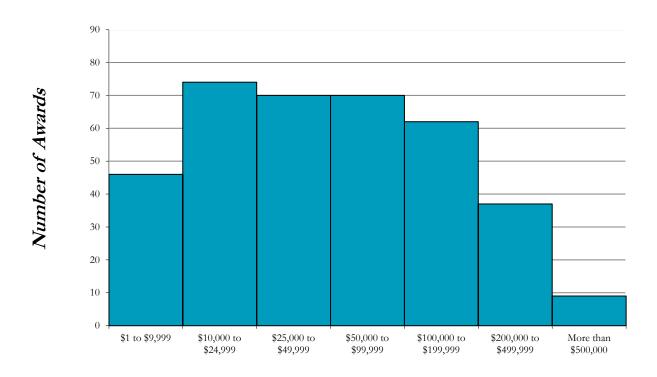
Source	Amount	% of Total
Federal	\$18,753,261	53%
Federal Subcontracts	\$11,614,913	33%
State	\$1,389,487	4%
Private/Other	\$3,526,316	10%
Total Funding	\$35,283,976	100%



The University Annual Report 2021 | 10

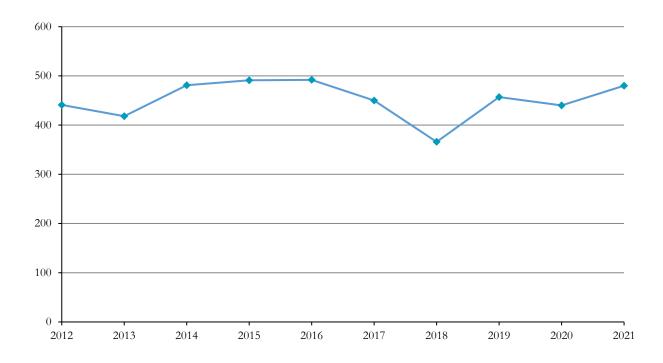
Awards by Amount-2021

Dollar Amount Categories	# of Awards	% of Total Awards by #	\$ Awards	% of Total Awards by \$ Amount
\$1 to \$9,999	46	13%	\$263,332	1%
\$10,000 to \$24,999	74	20%	\$1,190,467	3%
\$25,000 to \$49,999	70	19%	\$2,484,498	7%
\$50,000 to \$99,999	70	19%	\$4,783,338	14%
\$100,000 to \$199,999	62	17%	\$8,750,199	25%
\$200,000 to \$499,999	37	10%	\$11,754,914	33%
More than \$500,000	9	2%	\$6,057,228	17%
Totals	368	100%	\$35,283,976	100%



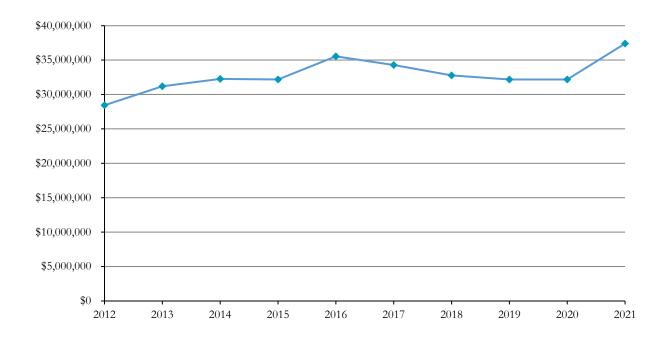
Dollar Amount Categories

Proposals Submitted



Total Award Expenditures

Year	Total Expenditures
2012	\$28,438,600
2013	\$31,184,980
2014	\$32,258,073
2015	\$32,177,342
2016	\$35,537,915
2017	\$34,278,900
2018	\$32,772,780
2019	\$32,177,733
2020	\$32,182,706
2021	\$37,401,138

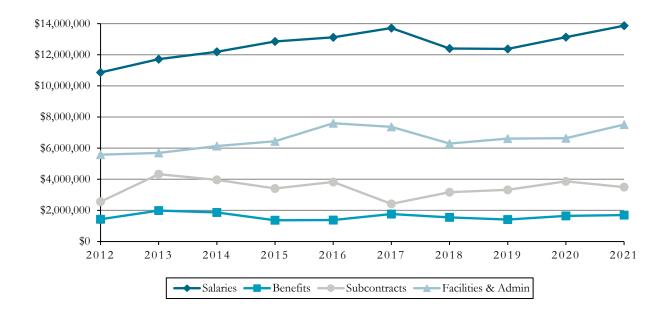


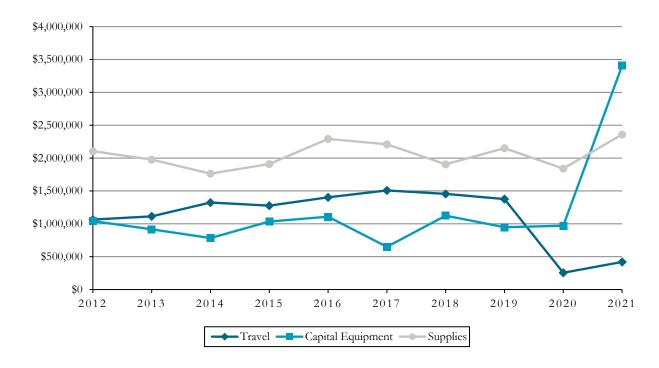
2021 Award Expenditures by Category

Personnel Costs	Amount
Salaries & Wages	
Admin Salaries	\$ 656,664
Faculty Salaries	183,520
Faculty Sal-Visit-Health Ben	1,200,460
Faculty Supplemental	3,423,792
Other Wages	403,597
Part-time Faculty Salaries	372,193
Staff Salaries	102,869
Student Contracts	4,176,203
Student Wages	3,344,991
Total Salaries & Wages	\$ 13,864,291
Fringe Benefits	\$ 1,696,505
Total Personnel Cost	\$ 15,560,796
Other	
Access Equipment	\$ 17,760
Capital Equipment	3,406,280
Computer Serv-Campus-Contract	324
Conference & Symposium Costs	35,270
Consultants	280,665
Contract Services	1,278,171
Employee Development/Training	39,298
Equipment Maintenance	82,556
Facilities & Administration	7,511,192
Facilities Maintenance	932
Hosting, Food, Entertainment	22,357
Non-Capital Equipment	182,730
Participant Stipends	253,756
Postage and Mailing	14,662
Printing and Copying	5,306
Purchase Discounts Earned	(146)
Rental Expense	122,659
Research Fellowships	65,292
Research Publications Costs	60,022
Software Acquisitions/Support	25,811
Software Maintenance	10,549
Student Aid	2,146,176
SubContracts	3,493,443
Supplies	2,358,884
Telecommunications	6,776
Travel	419,618
Total Other Expenditures	\$ 21,840,343
Total Research Expenditures	\$ 37,401,138

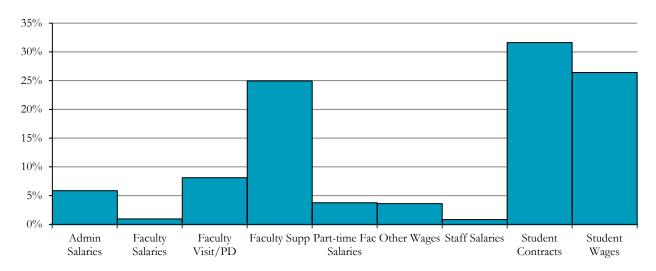
The University Annual Report 2021 | 14

Award Dollars Expended



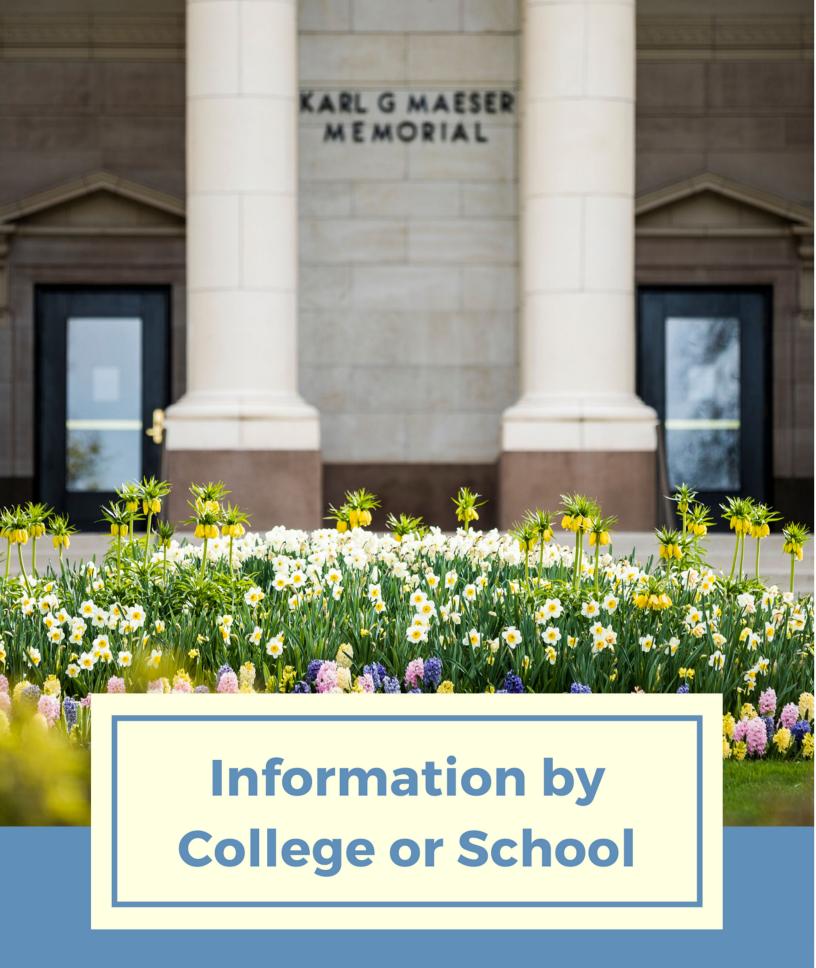


2020 Salaries and Wages Expenditures Total: \$13,128,621



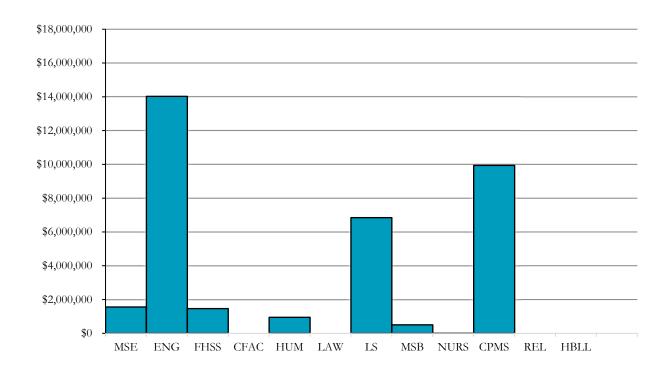
2021 Salaries and Wages Expenditures Total: \$13,864,291



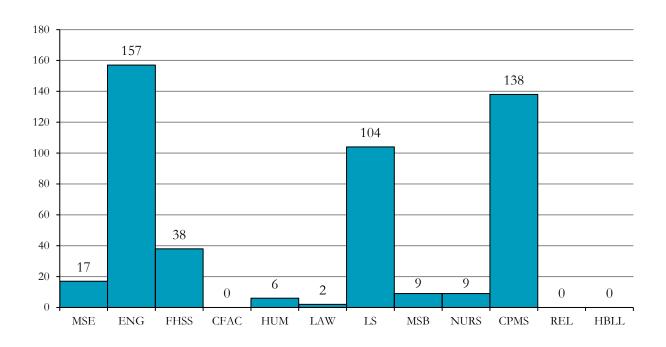


Total Awards by College

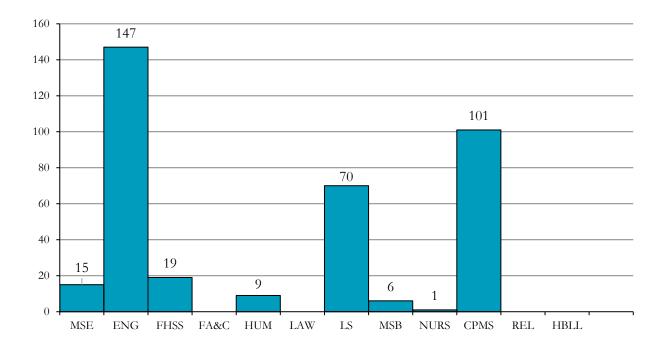
College or School	Total
David O. McKay School of Education	\$1,556,888
Ira A. Fulton College of Engineering	\$14,028,784
College of Family, Home & Social Sciences	\$1,463,898
College of Fine Arts & Communications	\$0
College of Humanities	\$944,640
J. Reuben Clark Law School	\$0
College of Life Sciences	\$6,849,169
Marriot School of Business	\$500,099
College of Nursing	\$750
College of Physical & Mathematical Sciences	\$9,939,748
Religious Education	\$0
Harold B. Lee Library	\$0
University Total	\$35,283,976



Number of Proposals-2021



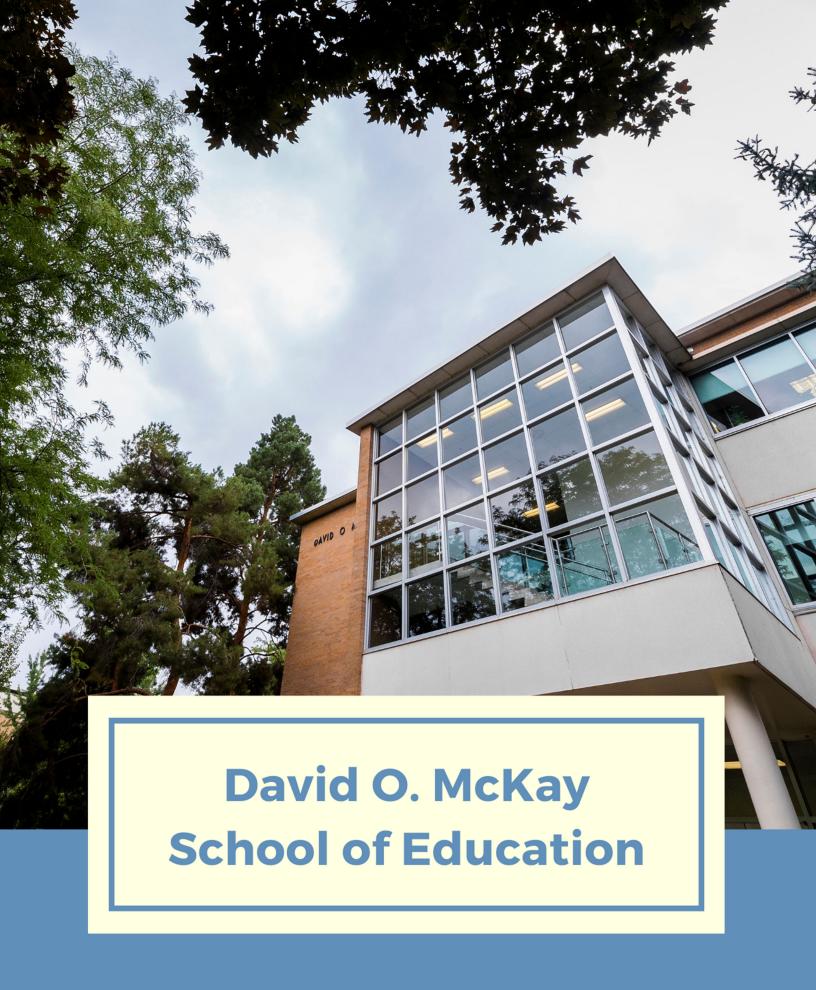
Number of Awards-2021



Total Awards by College and **Department**

College and Department		Amount
<u>David O. McKay School of Education</u> Center for Improvement of Teacher Education & School	alina	\$494,927
Communication Disorders	Jillig	\$342,217
Counseling, Psychology, & Special Education		\$129,167
Education Leadership & Foundations		\$74,809
Instructional Psychology & Technology		\$515,768
Teacher Education		\$313,708
reaction Education	TOTAL	\$1,556,888
Ira A. Fulton College of Engineering		
Chemical Engineering		\$2,121,236
Civil & Construction Engineering		\$1,398,847
Electrical & Computer Engineering		\$3,424,071
Manufacturing Engineering		\$948,986
Mechanical Engineering		\$5,850,417
School of Technology		\$285,227
-	TOTAL	\$14,028,784
College of Family, Home, & Social Sciences		
Anthropology		\$30,140
Economics		\$312,009
Geography		\$11,736
History		\$460,582
Museum of Peoples & Cultures		\$0
Office of Public Archaeology		\$0
Political Science		\$466,119
Psychology		\$153,097
School of Family Life		\$0
School of Social Work		\$18,017
Sociology		\$12,198
	TOTAL	\$1,463,898
College of Humanities		
Asian & Near East Languages		\$939,268
Comparative Arts & Letters		\$5,372
English		\$0
French & Italian		\$0
German & Russian		\$0
Linguistics		\$0
Philosophy		\$0
Spanish & Portuguese		\$0
	TOTAL	\$944,640

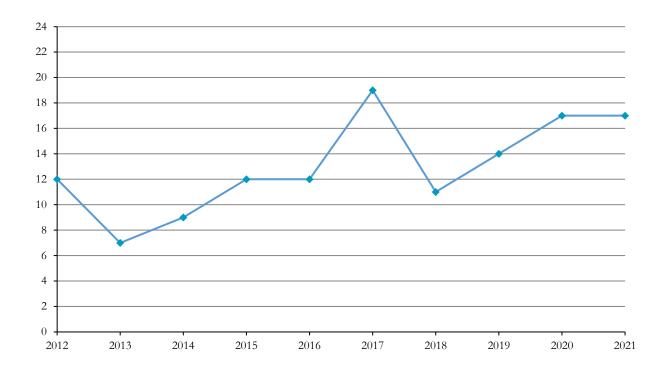
College of Fine Arts & Communications Art		\$0
Communications		\$0
Dance		\$0
Design		\$0
School of Music		\$0
Theatre & Media Arts		\$0
	TOTAL	\$0
College of Life Sciences		
Biology		\$1,879,072
Cell Biology & Physiology		\$278,857
Exercise Science		\$261,705
Microbiology & Molecular Biology		\$819,479
Monte Bean Life Science Museum Nutrition, Dietetics, & Food Science		\$24,000 \$780,445
Plant & Wildlife Sciences		\$2,270,034
Public Health		\$535,577
1 40110 11041111		<i>\$656,677</i>
	TOTAL	\$6,849,169
Marriott School of Business		0.5 0.00
Ballard Center for Social Impact		\$5,000
Experience Design & Management		\$0 \$0
Finance & Managerial Economics Global Management Center		\$285,000
Information Systems		\$6,878
Management		\$203,221
Marketing & Global Supply Chain		\$0
Romney Institute of Public Management		\$0
School of Accountancy		\$0
	TOTAL	\$500,099
		4,
College of Nursing	TOTAL	
Conege of Nuising	TOTAL	\$750
C. II CDI 1 0 M d d' . 1 C		
College of Physical & Mathematical Sciences Chemistry & Biochemistry		\$4,521,543
Computer Science		\$1,038,189
Geology		\$386,079
Mathematics		\$417,199
Mathematics Education		\$0
Physics & Astronomy		\$2,793,936
Statistics		\$782,800
	TOTAL	\$9,939,748
C IT ()		
Grand Total		\$35,283,976



Summary by Departments

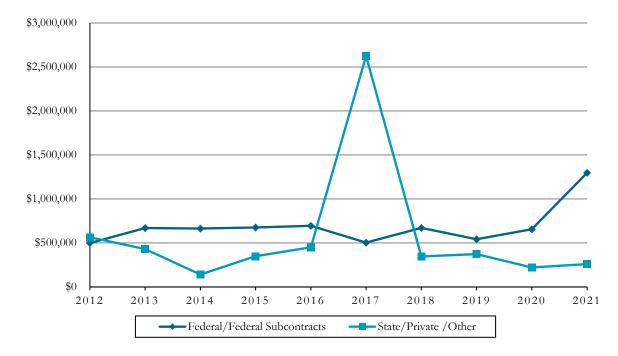
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Center for Improvement of Teacher Education & Schooling	2	4	7	\$494,927
Communication Disorders	3	3	3	\$342,217
Counseling, Psychology, & Special Education	3	6	3	\$129,167
Educational Leadership & Foundations	0	0	1	\$74,809
Instructional Psychology & Technology	0	0	1	\$515,768
Teacher Education	3	4	0	\$0
TOTALS	11	17	15	\$1,556,888

Proposal Submissions



Awards by Sources

	Grants/Co	ontracts	
Year	Federal/Federal	State/Private	Total
	Subcontracts	/Other	
2012	\$498,499	\$564,185	\$1,062,684
2013	\$669,318	\$430,120	\$1,099,438
2014	\$663,944	\$141,000	\$804,944
2015	\$675,327	\$348,440	\$1,023,767
2016	\$693,993	\$449,966	\$1,143,959
2017	\$503,548	\$2,624,841	\$3,128,389
2018	\$671,011	\$345,902	\$1,016,913
2019	\$541,274	\$372,300	\$913,574
2020	\$654,922	\$220,619	\$875,541
2021	\$1,297,390	\$259,499	\$1,556,889

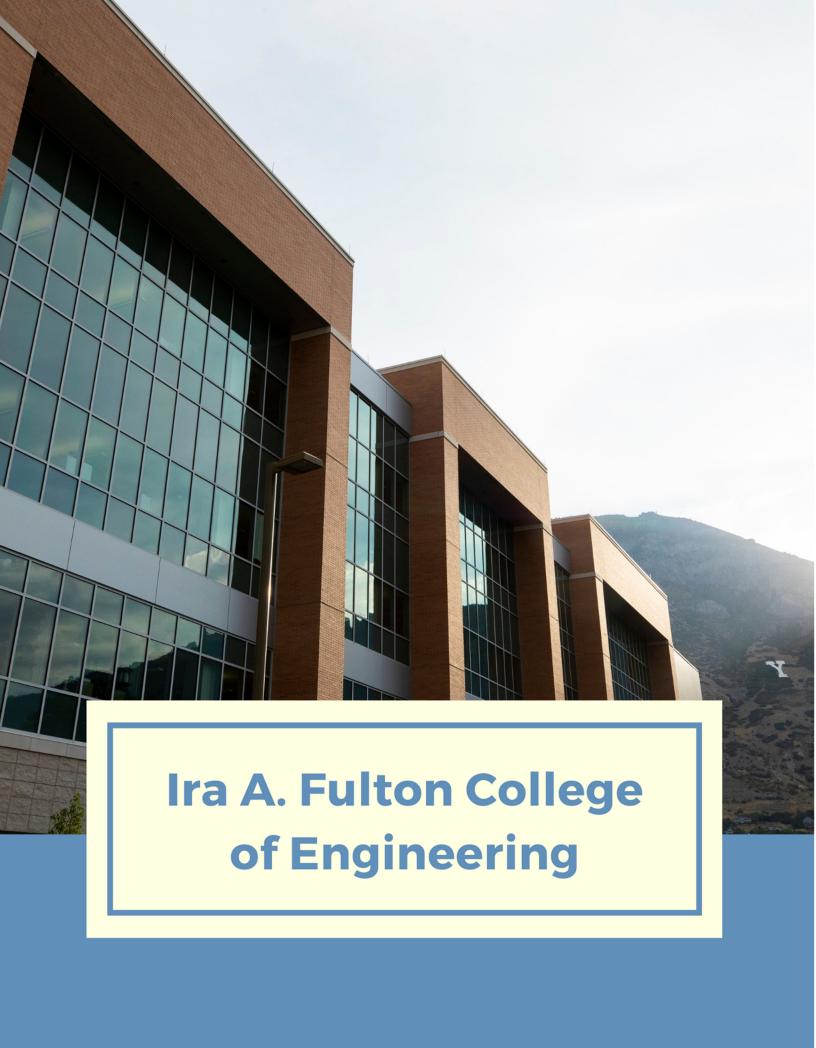


David O. McKay School of **Education 2021 Awards**

Researcher	<u>Role</u>	<u>Sponsor</u>	<u>Prime</u> Sponsor	<u>Title</u>	Beg Date	End Date	Account	<u>Amount</u>	
Center for Imp	Center for Improvement of Teacher Education & Schooling								
Caldarella, Paul	PI	University of Kansas	Department of Education	Middle School Class-wide Function-related intervention Teams (MS CW-FIT): Improving Academic Engagement and Outcomes for Middle School Students	Jul-16	Jun-21	R0302677	\$4,999	
Caldarella, Paul	PI	University of Kansas	Department of Education	Initial Efficacy Evaluation of the CW-FIT Middle School Program: Improviing Academic Engagem	Jan-22	Jun-22	R0302988	\$32,657	
Caldarella, Paul	PI	University of Kansas	Department of Education	Initial Efficacy Evaluation of the CW-FIT Middle School Program: Improviing Academic Engagem	Jan-22	Jun-22	Ro302988	\$167,272	
Flox, Cally	PI	National Endowment for the Arts		Native American Curriculum Initiative	Jul-21	Jun-23	R0202556	\$40,000	
Flox, Cally	PI	Utah Division of Arts and Museums		Native American Curriculum Initiative (BYU Arts Partnership) Continuation Project	Jul-20	Jun-21	R0402353	\$30,000	
Flox, Cally	PI	Utah State Board of Education	Department of Education	2021-22 BTSALP USBE Grant	Jul-21	Jun-22	R0402370	\$189,999	
Flox, Cally	PI	Utah Division of Arts and Museums		Native American Curriculum Initiative (BYU Arts Partnership) Continuation Project	Jul-21	Jun-22	R0402380	\$30,000	
Communicati	ons Disoro	lers							
Harmon, Tyson	PI	American Speech- Language- Hearing Association		2021 Advancing Academic-Research Career (AARC) Award	Sep-21	Feb-23	R0502354	\$5,000	
Tanner, Kristine	PI	National Institutes of Health		Pathophysiology of Voice Disorders due to Combination Inhaled Corticosteroids in Asthma	May-21	Apr-22	R0102086	\$267,383	
Tanner, Kristine	PI	National Institutes of Health		Imaging and influence of glottic and subglottic anatomy in healthy and stenotic patients	Sep-20	Aug-22	R0102088	\$69,834	

Counseling, Psychology, & Special Education

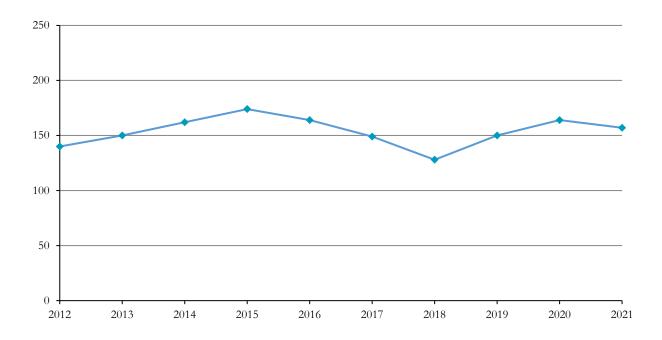
Charlton, Cade	PI	University of Florida	Department of Education	CEEDAR Funding	Aug-22	Dec-22	R0303007	\$21,168
Charlton, Cade	PI	Southern Utah University	Utah State Board of Education	SPUF CEEDAR/USBE Pilot	Mar-22	Jun-22	R0402374	\$4,500
Gabrielson, Terisa	PI	Utah State Board of Education	Department of Education	Building Utah's School Psychologist Workforce	Jul-21	Jun-23	R0303025	\$51,750
Young, Ellie	Co-PI	Utah State Board of Education	Department of Education	Building Utah's School Psychologist Workforce	Jul-21	Jun-23	Ro303025	\$51,750
Educational l	Leadershin	& Foundations						
Hallam, Pamela	PI	National Institutes of Health		Protecting Teacher's voices: Investigating Risk Factors, Conducting Analysis	May-21	Apr-22	R0302986	\$74,809
Instructional	Psycholog	y & Technology						
Leary, Heather	Co-PI	National Science Foundation		Developing Three- dimensional Science Teachers in Underserved Rural Settings	Sep-21	Aug-25	R0112461	\$5,280
Leary, Heather	Co-PI	National Science Foundation		Developing Three- dimensional Science Teachers in Underserved Rural Settings	Sep-21	Aug-25	R0112460	\$137,259
Leary, Heather	Co-PI	National Science Foundation		Developing Three- dimensional Science Teachers in Underserved Rural Settings	Sep-21	Aug-25	R0112460	\$5,280
Leary, Heather	Co-PI	National Science Foundation		Developing Three- dimensional Science Teachers in Underserved Rural Settings	Sep-21	Aug-25	R0112461	\$59,136
Leary, Heather	Co-PI	National Science Foundation		Developing Three- dimensional Science Teachers in Underserved Rural Settings	Sep-21	Aug-25	R0112460	\$228,060
Rich, Peter	PI	George Mason University	National Science Foundation	Project REVEAL-HS: Fostering Student Computational Thinking in Data Analsis Through Self-Regulated Learning Promps and Analytics (Joint Proposal with George Mason University)	Oct-18	Sep-22	Ro302828	\$80,753



Summary by Departments

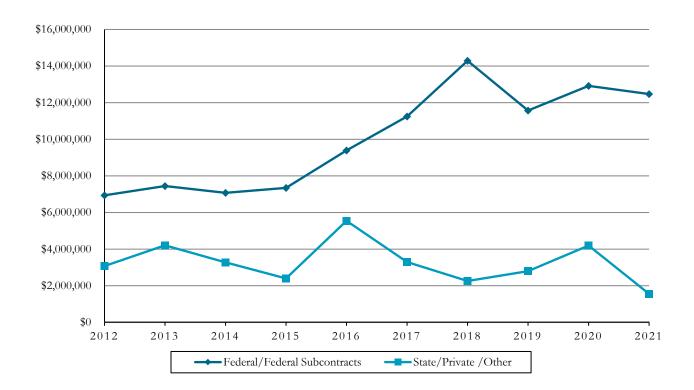
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded	
Chemical Engineering	12	24	14	\$2,121,236	
Civil & Construction Engineering	9	21	14	\$1,398,847	
Electrical & Computer Engineering	18	38	36	\$3,424,071	
Manufacturing Engineering	5	10	12	\$948,987	
Mechanical Engineering	22	57	68	\$5,850,417	
School of Technology	3	7	3	\$285,227	
TOTALS	69	157	147	\$14,028,784	

Proposal Submissions



Awards by Sources

	Grants/Co		
Year	Federal/Federal	State/Private	Total
	Subcontracts	/Other	
2012	\$6,940,419	\$3,075,235	\$10,015,653
2013	\$7,446,524	\$4,208,437	\$11,654,961
2014	\$7,073,257	\$3,279,114	\$10,352,371
2015	\$7,345,708	\$2,397,665	\$9,743,373
2016	\$9,391,742	\$5,546,423	\$14,938,165
2017	\$11,246,406	\$3,294,087	\$14,540,493
2018	\$14,289,851	\$2,259,118	\$16,548,969
2019	\$11,570,059	\$2,794,877	\$14,364,936
2020	\$12,915,725	\$4,196,130	\$17,111,855
2021	\$12,469,618	\$1,559,166	\$14,028,784



Ira A. Fulton College of **Engineering 2021 Awards**

Researcher	<u>Role</u>	Sponsor	<u>Prime</u> Sponsor	<u>Title</u>	Beg Date	End Date	Account	Amount
Chemical Engi	ineering							
Baxter, Larry	PI	Department of Energy		Integrated University Program	Aug-21	Aug-33	Ro202557	\$161,000
Baxter, Larry	PI	Department of Energy		Integrated University Program	Aug-21	Aug-33	R0202558	\$7,500
Fry, Andrew	PI	Department of Energy		Testing and model – based optimization of coal-fired primary heater design for indirect supercritical CO2 Power Cycles	Oct-20	Dec-21	R0202545	\$90,000
Fry, Andrew	PI	University of Utah	Department of Energy	Deployment of artificial i33ntelligence for dynamic optimization to measure heat rate during ramping for coal-based power plants	Oct-19	Sep-22	Ro302897	\$744,258
Fry, Andrew	PI	University of Utah	Department of Energy	Deployment of artificial 33intelligence for dynamic optimization to measure heat rate during ramping for coal-based power plants	Oct-19	Sep-22	Ro302897	\$344,264
Fry, Andrew	PI	Electric Power Research Institute	Department of Energy	Testing of Ash Behavior and Corrosion while Firing Coal in a Pressurized Oxy- Combustor	Nov-21	Apr-22	R0303034	\$42,450
Fry, Andrew	PI	University of Utah	PacifiCorp	Technical Assistance in Support of Biomass Co- firing Demonstration	Jun-17	Nov-21	R0602554	\$15,000
Harb, John	PI	Alpha Tech Research Corp		Fate of Contaminants and Minor Components in a Fuel-containing Molten Salt	Jul-21	Jun-22	R0602670	\$80,525
Hedengren, John	Co-PI	National Science Foundation		I/UCRC: Center for Unmanned Aircraft Systems, Phase II Site	Mar-17	Feb-22	R0112367	\$20,000
Hedengren, John	Co-PI	National Science Foundation		I/UCRC: Center for Unmanned Aircraft Systems, Phase II Site	Mar-17	Feb-22	R0112474	\$10,500

Hedengren, John	Co-PI	AeroVironment		C-UAS I/UCRC Phase II Industry Sponsors	Mar-17	Feb-22	R0602546	\$2,200
Hedengren, John	Co-PI	AeroVironment		C-UAS I/UCRC Phase II Industry Sponsors	Mar-17	Feb-22	R0602546	\$2,200
Hedengren, John	Co-PI	AeroVironment		C-UAS I/UCRC Phase II Industry Sponsors	Mar-17	Feb-22	R0602546	\$2,200
Hedengren, John	Co-PI	AeroVironment		C-UAS I/UCRC Phase II Industry Sponsors	Mar-17	Feb-22	R0602546	\$2,200
Hedengren, John	Co-PI	Insitu (A Boeing Company)		C-UAS I/UCRC Phase II Industry Sponsors	Mar-17	Feb-22	R0602546	\$8,800
Hedengren, John	PI	Seeq		Hybrid Physics-based and Deep Learning	Jun-21	May-24	R0602660	\$150,000
Rappleye, Devin	PI	Department of Energy		High-Efficiency Electrochemical Test Facility for Corrosion and Hydrodynamic Analysis in Molten Salts	Oct-21	Sep-22	R0202561	\$180,269
Rappleye, Devin	PI	Lawrence Livermore National Labs	Department of Energy	SCALE-UP OF SUPERIMPOSING AC OVER DC FOR MOLTEN SALT ELECTROREFINING	Apr-21	Apr-22	R0302984	\$157,998
Rappleye, Devin	PI	Savannah River National Lab	Department of Energy	Technical Exchange on Pyrochemical Processing	Jan-21	Jan-22	R0302967	\$34,872
Wheeler, Dean	PI	National Renewable Energy Laboratory	Department of Energy	Local Mapping of Electrode Properties for Extreme Fast Charging	Feb-22	Aug-22	Ro302898	\$25,000
Wheeler, Dean	PI	Applied Minerals Inc.	Department of Energy	STTR Phase I: Domestic Halloysite-Derived Silicon as a Low-Cost High-Performance Anode Material for Li-Ion Batteries	Jun-22	Jun-22	R0303036	\$40,000
Civil & Constr	uction Eng	ineering						
Ames, Dan	Co-PI	National Aeronautics and Space Administration		Improving Resiliency and Reducing Risk due to Extreme Hydrologic Events through Application of Earth Observations and In-Situ Monitoring Information	Nov-19	Oct-22	R0162040	\$81,318
Ames, Dan	PI	Utah State University	National Science Foundation	SI2SSI: Cyberinfrastructure of Advancing Hydrologic Knowledge through Collaborative Integration of Data Science, Modeling and Analysis	oct202	Aug-21	R0302774	\$3,113
Franke, Kevin	PI	National Science Foundation		BRITE Pivot: Towards Intelligent Health Monitoring, Inspection, and Reconnaissance of Critical Infrastructure using Autonomous Robots	Jan-22	Dec-24	R0112472	\$595,822

Franke, Kevin	Co-PI	National Science Foundation		I/UCRC: Center for Unmanned Aircraft Systems, Phase II Site	Mar-17	Feb-22	R0112367	\$20,000
Franke, Kevin	Co-PI	National Science Foundation		I/UCRC: Center for Unmanned Aircraft Systems, Phase II Site	Mar-17	Feb-22	R0112474	\$10,500
Franke, Kevin	Co-PI	AeroVironment		C-UAS I/UCRC Phase II Industry Sponsors	Mar-17	Feb-22	R0602546	\$2,200
Franke, Kevin	Co-PI	AeroVironment		C-UAS I/UCRC Phase II Industry Sponsors	Mar-17	Feb-22	R0602546	\$2,200
Franke, Kevin	Co-PI	AeroVironment		C-UAS I/UCRC Phase II Industry Sponsors	Mar-17	Feb-22	R0602546	\$2,200
Franke, Kevin	Co-PI	AeroVironment		C-UAS I/UCRC Phase II Industry Sponsors	Mar-17	Feb-22	R0602546	\$2,200
Franke, Kevin	Co-PI	Insitu (A Boeing Company)		C-UAS I/UCRC Phase II Industry Sponsors	Mar-17	Feb-22	Ro602546	\$8,800
Jones, Norm	Co-PI	Utah State University	National Science Foundation	SI2SSI: Cyberinfrastructure of Advancing Hydrologic Knowledge through Collaborative Integration of Data Science, Modeling and Analysis	Oct-20	Aug-21	R0302774	\$3,021
Judd, Johnn	PI	MTC Solutions		Strength and behavior of composite timber concrete panels and bearing beam hangers	Dec-19	Mar-22	R0570030	\$100
Macfarlane, Gregory	Co-PI	Utah Department of Transportation		ANALYSIS OF PERFORMANCE MEASURES OF UDOTS TRAFFIC INCIDENT MANAGEMENT PROGRAM: PHASE III	Nov-21	Jun-23	R0402379	\$14,999
Macfarlane, Gregory	PI	Utah Department of Transportation		Equitable Access to Nutrition in Utah	Oct-21	Sep-22	R0402376	\$23,797
Macfarlane, Gregory	PI	Utah Department of Transportation		Optimizing Traffic Incident Management Deployment in Utah	Oct-21	Dec-23	R0402377	\$34,998
Miller, Woodruff	PI	Timpanogas Special Services District	State of Utah	Utah Lake Nutrient Cycling Studies: Phase I	Feb-21	Feb-22	R0402369	\$83,112
Nelson, Jim	PI	National Aeronautics and Space Administration		Improving Resiliency and Reducing Risk due to Extreme Hydrologic Events through Application of Earth Observations and In-Situ Monitoring Information	Nov-19	Oct-22	R0162040	\$83,782
Nelson, Jim	Co-PI	Utah State University	National Science Foundation	SI2SSI: Cyberinfrastructure of Advancing Hydrologic Knowledge through Collaborative Integration of Data Science, Modeling and Analysis	Oct-20	Aug-21	Ro302774	\$3,021

Rollins, Kyle	PI	Utah Department of Transportation		BEHAVIOR OF REINFORCED AND UNREINFORCED LIGHTWEIGHT CELLULAR CONCRETE FOR RETAINING WALLS	May-20	Sep-22	R0402354	\$35,575
Schultz, Grant	Co-PI	National Science Foundation		Point Process Models for Traffic Risk Analysis and Crash Prevention	Aug-21	Jul-24	R0112446	\$49,985
Schultz, Grant	Co-PI	Utah Department of Transportation		Optimizing Traffic Incident Management Deployment in Utah	Oct-21	Dec-23	R0402377	\$34,998
Schultz, Grant	PI	Utah Department of Transportation		ANALYSIS OF PERFORMANCE MEASURES OF UDOTS TRAFFIC INCIDENT MANAGEMENT PROGRAM: PHASE III	Nov-21	Jun-23	R0402379	\$14,999
Schultz, Grant	PI	Utah Department of Transportation		BYU SAFETY MODELING FY21	Apr-21	Dec-22	R0402367	\$59,994
Schultz, Grant	PI	Utah Department of Transportation		EFFECTIVENESS OF ITS ON UTAH ROADWAYS	Oct-21	Feb-23	Ro402378	\$75,000
Schultz, Grant	PI	Utah Department of Transportation		Safe Speed Limit Guidance for Utah	May-21	Jun-23	R0402368	\$40,000
Scott, Michael	PI	Sandia National Laboratories	Department of Energy	Research into quadrature of Spline Based Simulations	Nov-20	Sep-21	Ro302975	\$10,000
Scott, Michael	PI	Sandia National Laboratories	Department of Energy	Research into quadrature of Spline Based Simulations	Nov-20	Sep-21	Ro302975	\$20,000
Williams, Gus	PI	Timpanogas Special Services District	State of Utah	Utah Lake Nutrient Cycling Studies: Phase I	Feb-21	Feb-22	R0402369	\$83,112
Electrical and	Computer	Engineering						
Beard, Randy	Co-PI	National Science Foundation		I/UCRC: Center for Unmanned Aircraft Systems, Phase II Site	Mar-17	Feb-22	R0112362	\$5,000
Beard, Randy	Co-PI	National Science Foundation		I/UCRC: Center for Unmanned Aircraft Systems, Phase II Site	Mar-17	Feb-22	R0112367	\$20,000
Beard, Randy	Co-PI	National Science Foundation		I/UCRC: Center for Unmanned Aircraft Systems, Phase II Site	Mar-17	Feb-22	R0112474	\$10,500
Beard, Randy	Co-PI	National Science Foundation		I/UCRC: Center for Unmanned Aircraft Systems, Phase II Site - REU	Mar-17	Feb-22	R0112343	\$16,000
Beard, Randy	Co-PI	National Science Foundation		I/UCRC: Center for Unmanned Aircraft Systems, Phase II Site - REU	Mar-17	Feb-22	R0112343	\$10,000
Beard, Randy	Co-PI	National Science Foundation		MRI: Development of a Local Air Traffic Information System (LATIS) for UAS Collision Avoidance Research	Oct-17	se2022	R0112473	\$3,125

Beard, Randy	PI	Scientific Systems Company, Inc.	Air Force	AFX20D-TCSO1 TITLE: Phase I Open Topic supporting Agility Prime: Open Call for Innovative Defense-Related Dual- Purpose Technologies/Solutions	Jan-21	Jun-21	Ro302974	\$22,588
Beard, Randy	PI	ImSAR,LLC	Air Force	IMSAR Low-SWaP Sense and Avoid Solution for eVTOL / UAM Platforms	Dec-20	May-21	Ro302964	\$27,589
Beard, Randy	Co-PI	Scientific Systems Company, Inc.	Air Force	C-UAS Membership Dues	May-20	Jun-22	R0302943	\$33,000
Beard, Randy	Co-PI	Scientific Systems Company, Inc.	Air Force	C-UAS Membership Dues	May-20	Jun-22	R0302964	\$11,000
Beard, Randy	Co-PI	Utopia Compression	Air Force	RAPID: Airborne Visual Analytics (AVIAN) - C- UAS Membership Dues	Jun-19	Feb-22	Ro302879	\$5,500
Beard, Randy	Co-PI	Utopia Compression	Air Force	RAPID: Airborne Visual Analytics (AVIAN) - C- UAS Membership Dues	Jun-19	Feb-22	Ro302879	\$5,500
Beard, Randy	Co-PI	Utopia Compression	Air Force	RAPID: Airborne Visual Analytics (AVIAN) - C- UAS Membership Dues	Jun-19	Feb-22	Ro302879	\$5,500
Beard, Randy	Co-PI	Archer Aviation	Air Force	STTR: Precision Landing Localization technology for autonomous eVTOL	Feb-21	Oct-21	R0303010	\$37,419
Beard, Randy	Co-PI	AeroVironment		C-UAS I/UCRC Phase II Industry Sponsors	Mar-17	Feb-22	R0602546	\$2,200
Beard, Randy	Co-PI	AeroVironment		C-UAS I/UCRC Phase II Industry Sponsors	Mar-17	Feb-22	R0602546	\$2,200
Beard, Randy	Co-PI	AeroVironment		C-UAS I/UCRC Phase II Industry Sponsors	Mar-17	Feb-22	R0602546	\$2,200
Beard, Randy	Co-PI	AeroVironment		C-UAS I/UCRC Phase II Industry Sponsors	Mar-17	Feb-22	R0602546	\$2,200
Beard, Randy	Co-PI	Insitu (A Boeing Company)		C-UAS I/UCRC Phase II Industry Sponsors	Mar-17	Feb-22	Ro602546	\$8,800
Camacho, Ryan	PI	University of Arizona	National Science Foundation	Photonic Circuit Simulation for NSF Engineering Research Center for Quantum Networks (CQN)	Sep-20	Aug-22	R0302961	\$50,000
Camacho, Ryan	PI	Oak Ridge National Laboratory	Department of Energy	Continuous Variable Integrated Quantum Photonics	Mar-21	Jul-23	Ro302977	\$200,000
Chiang, Shiuh-hua Wood	Co-PI	Oak Ridge National Laboratory	Department of Energy	Continuous Variable Integrated Quantum Photonics	Mar-21	Aug-22	Ro302977	\$200,000
Goeders, Jeff	Co-PI	National Science Foundation		Phase-I- I/UCRC Brigham Young University: Center for Space, High- Performance, and Resilient Computing (SHREC)	Sep-17	Aug-22	R0112363	\$37,500

Goeders, Jeff	Co-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-22	R0112389	\$13,200
Goeders, Jeff	Co-PI	Pennsylvania State University	Defense Threat Reduction Agency	Interaction of Ionizing Radiation with Matter, University Research Alliance (IIRM-URA)	Jul-20	Dec-21	Ro302947	\$51,000
Goeders, Jeff	Co-PI	BAE Systems, Inc.		SHREC I/UCRC Industry Membership Dues	Sep-17	Aug-22	R0602555	\$10,000
Goeders, Jeff	Co-PI	Blue Origin, LLC		SHREC I/UCRC Industry Membership Dues	Sep-17	Aug-22	Ro602555	\$10,000
Goeders, Jeff	Co-PI	L3Harris Technologies, Inc. Communication Systems-West		SHREC I/UCRC Industry Membership Dues	Sep-17	Aug-22	Ro602555	\$10,000
Goeders, Jeff	Co-PI	Raytheon		SHREC I/UCRC Industry Membership Dues	Sep-17	Aug-22	R0602555	\$10,000
Goeders, Jeff	Co-PI	Raytheon		SHREC I/UCRC Industry Membership Dues	Sep-17	Aug-22	R0602555	\$10,000
Hutchings, Brad	Co-PI	National Science Foundation		Phase-I- I/UCRC Brigham Young University: Center for Space, High- Performance, and Resilient Computing (SHREC)	Sep-17	Aug-22	R0112363	\$37,500
Hutchings, Brad	Co-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-22	R0112389	\$13,200
Hutchings, Brad	Co-PI	BAE Systems, Inc.		SHREC I/UCRC Industry Membership Dues	Sep-17	Aug-22	R0602555	\$10,000
Hutchings, Brad	Co-PI	Blue Origin, LLC		SHREC I/UCRC Industry Membership Dues	Sep-17	Aug-22	R0602555	\$10,000
Hutchings, Brad	Co-PI	L3Harris Technologies, Inc. Communication Systems-West		SHREC I/UCRC Industry Membership Dues	Sep-17	Aug-22	Ro602555	\$10,000
Hutchings, Brad	Co-PI	Raytheon		SHREC I/UCRC Industry Membership Dues	Sep-17	Aug-22	Ro602555	\$10,000
Hutchings, Brad	Co-PI	Raytheon		SHREC I/UCRC Industry Membership Dues	Sep-17	Aug-22	Ro602555	\$10,000

Lee, D.J.	PI	Smart Vision Works		Artificial Intelligence for Detection of Foreign Materials in Food Products	Jun-21	May-22	R0602662	\$21,000
Long, David	PI	National Aeronautics and Space Administration		Consistency in the Scatterometer Climate Record	Oct-19	Oct-22	R0162035	\$150,300
Long, David	PI	National Aeronautics and Space Administration		Global L-band Active/Passive Observatory for Water Cycle Studies (GLOWS)	Feb-20	Jan-23	R0162041	\$100,863
Long, David	PI	National Oceanic & Atmospheric Administration		Operationalizing Ultra High Resolution Scatterometer Wind and Rain	Jun-20	May-22	Ro202548	\$191,497
Long, David	PI	Care Weather Technologies, LLC	Air Force	Care Weather scatterometer analysis	Apr-21	Jun-21	R0302990	\$15,060
Long, David	PI	University of Colorado, Boulder	National Aeronautics and Space Administration	BYU support for NSIDC proposal for firn aquifers from SMAP	Mar-21	Mar-24	R0303001	\$45,722
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-22	R0302938	\$83,000
Mangelson, Joshua	PI	Office of Naval Research	Department of Defense	A re-configurable testbed for autonomous heterogeneous marine mapping, sensing, and search	Mar-21	Mar-22	R0202550	\$104,631
Mangelson, Joshua	PI	Office of Naval Research	Department of Defense	A re-configurable testbed for autonomous heterogeneous marine mapping, sensing, and search	Mar-21	Mar-22	Ro202550	\$104,631
Mangelson, Joshua	PI	Office of Naval Research	Department of Defense	Cross-Modality Localization and Mapping	Apr-21	Apr-24	R0202552	\$184,775
Mazzeo, Brian	Co-PI	Applied Minerals Inc.	Department of Energy	STTR Phase I: Domestic Halloysite-Derived Silicon as a Low-Cost High-Performance Anode Material for Li-Ion Batteries	Jun-21	Jun-22	R0303036	\$40,000
Mazzeo, Brian	PI	Los Alamos National Laboratory	Department of Energy	Engineering Capstone Design Projects	Jun-21	May-21	Ro302968	\$48,000
Nelson, Brent	Co-PI	Office of Naval Research	Department of Defense	A re-configurable testbed for autonomous heterogeneous marine mapping, sensing, and search	Mar-21	Mar-22	R0202550	\$104,631
Nelson, Brent	Co-PI	Office of Naval Research	Department of Defense	A re-configurable testbed for autonomous heterogeneous marine mapping, sensing, and search	Mar-21	Mar-22	Ro202550	\$104,631
Nelson, Brent	Co-PI	National Science Foundation		Phase-I- I/UCRC Brigham Young University: Center for Space, High- Performance, and Resilient Computing (SHREC)	Sep-17	Aug-22	R0112363	\$37,500

Nelson, Brent	PI	GrammaTech	Office of Naval Research	Grammatech STTR Phase 2 - Bitstream Security	Jul-20	Dec-21	Ro302955	\$86,524
Nelson, Brent	PI	GrammaTech	Office of Naval Research	Grammatech STTR Phase 2 - Bitstream Security	Jul-20	Dec-21	Ro602555	\$82,875
Nelson, Brent	Co-PI	BAE Systems, Inc.		SHREC I/UCRC Industry Membership Dues	Sep-17	Aug-22	Ro602555	\$10,000
Nelson, Brent	Co-PI	Blue Origin, LLC		SHREC I/UCRC Industry Membership Dues	Sep-17	Aug-22	R0602555	\$10,000
Nelson, Brent	Co-PI	L ₃ Harris Technologies, Inc. Communication Systems-West		SHREC I/UCRC Industry Membership Dues	Sep-17	Aug-22	Ro602555	\$10,000
Nelson, Brent	Co-PI	Raytheon		SHREC I/UCRC Industry Membership Dues	Sep-17	Aug-22	Ro602555	\$10,000
Nelson, Brent	Co-PI	Raytheon		SHREC I/UCRC Industry Membership Dues	Sep-17	Aug-22	R0602555	\$10,000
Nordin, Greg	Co-PI	National Institutes of Health		3D-Printed Integrated Microfluidic Devices for Preterm Birth Biomarker Analysis	Jul-21	Jun-22	R0102090	\$84,213
Nordin, Greg	PI	National Institutes of Health		High Density 3D Printed Microfluidics for Cell- Based Biomedical Applications	Sep-20	Aug-23	R0102108	\$14,781
Nordin, Greg	PI	University of Utah	National Science Foundation	Microfluidic Design Automation	Sep-21	Aug-22	R0303032	\$99,999
Peterson, Cammy	Co-PI	Office of Naval Research	Department of Defense	A re-configurable testbed for autonomous heterogeneous marine mapping, sensing, and search	Mar-21	Mar-22	R0202550	\$104,631
Peterson, Cammy	Co-PI	Office of Naval Research	Department of Defense	A re-configurable testbed for autonomous heterogeneous marine mapping, sensing, and search	Mar-21	Mar-22	R0202550	\$104,631
Peterson, Cammy	Co-PI	National Science Foundation		I/UCRC: Center for Unmanned Aircraft Systems, Phase II Site	Mar-17	Feb-22	R0112367	\$20,000
Peterson, Cammy	Co-PI	National Science Foundation		I/UCRC: Center for Unmanned Aircraft Systems, Phase II Site	Mar-17	Feb-22	R0112474	\$10,500
Peterson, Cammy	PI	National Science Foundation		MRI: Development of a Local Air Traffic Information System (LATIS) for UAS Collision Avoidance Research	Oct-17	Sep-22	R0112473	\$3,125
Peterson, Cammy	Co-PI	AeroVironment		C-UAS I/UCRC Phase II Industry Sponsors	Mar-17	Feb-22	R0602546	\$2,200
Peterson, Cammy	Co-PI	AeroVironment		C-UAS I/UCRC Phase II Industry Sponsors	Mar-17	Feb-22	R0602546	\$2,200
Peterson, Cammy	Co-PI	AeroVironment		C-UAS I/UCRC Phase II Industry Sponsors	Mar-17	Feb-22	R0602546	\$2,200

Peterson, Cammy	Co-PI	AeroVironment		C-UAS I/UCRC Phase II Industry Sponsors	Mar-17	Feb-22	R0602546	\$2,200
Peterson, Cammy	Co-PI	Insitu (A Boeing Company)		C-UAS I/UCRC Phase II Industry Sponsors	Mar-17	Feb-22	Ro602546	\$8,800
Rice, Michael	PI	L3Harris Technologies, Inc. Communication Systems-West		Multi-antenna CDMA MRC Receiver	Jul-21	Oct-21	R0602669	\$19,686
Schultz, Stephen	PI	Nielson Scientific, LLC	Army	Development and Testing of a Transparent Cryogenic Probe Card Based on Silicon Carbide MEMS	Feb-21	Jun-21	Ro302982	\$214,548
Schultz, Stephen	PI	Nielson Scientific, LLC	National Science Foundation	Integrated Development of CMB-S4 Low-Pass Filters Using a Scalable Proprietary Ablation Process	Jun-21	Mar-22	R0303029	\$18,860
Schultz, Stephen	PI	Nielson Scientific, LLC	Army	Development and Testing of a Transparent Cryogenic Probe Card Based on Silicon Carbide MEMS	Feb-21	Jun-21	R0302982	\$16,112
Smalley, Daniel	PI	National Science Foundation		Breakthrough Display Technology as a New Medium for Spatial Thinking in STEM	Apr-19	Mar-24	R0112399	\$16,000
Smalley, Daniel	PI	Light Field Lab, Inc.		FENG Characterization & Transparent "Sell" Membrane Ultrasonic Transducers	Jul-18	Oct-21	Ro602573	\$19,800
Warnick, Karl	Co-PI	National Science Foundation		MRI: Development of a Local Air Traffic Information System (LATIS) for UAS Collision Avoidance Research	Oct-17	Sep-22	R0112473	\$3,125
Wirthlin, Mike	PI	National Science Foundation		Phase-I- I/UCRC Brigham Young University: Center for Space, High- Performance, and Resilient Computing (SHREC)	Sep-17	Aug-22	R0112363	\$37,500
Wirthlin, Mike	PI	National Science Foundation		Phase-I- I/UCRC Brigham Young University: Center for Space, High- Performance, and Resilient Computing (SHREC)	Sep-17	Aug-22	R0112378	\$16,000
Wirthlin, Mike	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-22	R0112389	\$13,600
Wirthlin, Mike	PI	Pennsylvania State University	Defense Threat Reduction Agency	Interaction of Ionizing Radiation with Matter, University Research Alliance (IIRM-URA)	Jul-20	Dec-21	Ro302947	\$51,000
Wirthlin, Mike	PI	BAE Systems, Inc.		SHREC I/UCRC Industry Membership Dues	Sep-17	Aug-22	R0602555	\$10,000

Wirthlin, Mike	PI	Blue Origin, LLC		SHREC I/UCRC Industry Membership Dues	Sep-17	Aug-22	R0602555	\$10,000
Wirthlin, Mike	PI	L3Harris Technologies, Inc. Communication Systems-West		SHREC I/UCRC Industry Membership Dues	Sep-17	Aug-22	Ro602555	\$10,000
Wirthlin, Mike	PI	Raytheon		SHREC I/UCRC Industry Membership Dues	Sep-17	Aug-22	Ro602555	\$10,000
Wirthlin, Mike	PI	Raytheon		SHREC I/UCRC Industry Membership Dues	Sep-17	Aug-22	R0602555	\$10,000
Manufacturin	g Engineer	ring						
George, Andy	PI	UES, Inc.	Air Force	Void formation and mortality during liquid composite molding using high temperature resins	May-21	Jun-23	R0303011	\$60,000
George, Andy	PI	UES, Inc.	Air Force	Void formation and mortality during liquid composite molding using high temperature resins	May-21	Jun-23	R0303011	\$70,000
George, Andy	PI	ElectraFly, LLC	Air Force Office of Scientific Research	STTR: Carbon-Fiber Infusion for ORB Aircraft Parts	Jan-21	Jul-21	Ro302989	\$60,345
George, Andy	PI	AnalySwift	Air Force Office of Scientific Research	STTR: Integrated computational blades engineering for rapid	Dec-20	Jun-21	Ro302970	\$20,520
Hovanski, Yuri	PI	National Aeronautics and Space Administration	National Aeronautics and Space Administration	Center for Friction Stir Processing Membership	Aug-20	Aug-21	Ro202544	\$100,000
Hovanski, Yuri	Co-PI	Office of Naval Research	Department of Defense	Investigation of friction stir additive repair techniques of AA7050 for naval applications	Jun-20	Jun-23	Ro202537	\$115,591
Hovanski, Yuri	PI	Pacific Northwest National Laboratory	Department of Energy	Center of Friction Stir Processing Membership	Sep-21	Aug-22	R0303012	\$50,000
Hovanski, Yuri	PI	Bond Technologies, Inc.		Center of Friction Stir Processing Membership	Dec-19	Nov-20	R0602623	\$6,250
Hovanski, Yuri	PI	Bond Technologies, Inc.		Center of Friction Stir Processing Membership	Dec-19	Nov-20	Ro602623	\$35,000
Hovanski, Yuri	PI	Northrop Grumman		Mobile Smart Manufacturing Demonstrator	Jun-19	Aug-22	R0602608	\$75,000
Miles, Michael	Co-PI	Office of Naval Research	Department of Defense	Investigation of friction stir additive repair techniques of AA7050 for naval applications	Jun-20	Jun-23	Ro202537	\$115,591
Miles, Michael	Co-PI	National Science Foundation		Improving Friction Stir Welding: Quantifying Thermal Interfaces using Thermal Waves	Jan-20	Dec-22	R0112431	\$8,000
Miles, Michael	Co-PI	National Science Foundation		Improving Friction Stir Welding: Quantifying Thermal Interfaces using Thermal Waves	Jan-20	Dec-22	R0112431	\$8,000

Miles, Michael	PI	National Aeronautics and Space Administration		DEVELOPMENT OF A METHODOLOGY FOR CHARACTERIZING THE TOOL/PART INTERFACE IN FRICTION STIR WELDING FOR IMPROVEMENT OF	Jan-19	Jan-22	R0162036	\$49,526
Miles, Michael	PI	National Science Foundation		GOALI/Collaborative Research: Strain Gadient Plasticity Modeling to Link Microstructural Non-Local Effects of Dislocation/Interface Interactions with Ductility and Springback	Oct-19	Sep-22	R0112432	\$8,000
Nelson, Tracy	Co-PI	National Aeronautics and Space Administration		DEVELOPMENT OF A METHODOLOGY FOR CHARACTERIZING THE TOOL/PART INTERFACE IN FRICTION STIR WELDING FOR IMPROVEMENT OF	Jan-19	Jan-22	R0162036	\$48,069
Nelson, Tracy	PI	Office of Naval Research	Department of Defense	Investigation of friction stir additive repair techniques of AA7050 for naval applications	Jun-20	Jun-23	R0202537	\$119,094
Mechanical E	ngineering							
Adams, Brad	Co-PI	National Science Foundation		Collaborative Research: Network Cluster: Dust in the Critical Zone from the Great Basin to the Rocky Mountains	9/20021	Aug-22	R0112444	\$70,023
Adams, Brad	PI	Utah Division of Air Quality		Development of a WRF- based Urban Canopy Model for Salt Lake Metro Area	Oct-21	Aug-23	R0402375	\$59,411
Allen, Matt	PI	Kansas City National Security Campus	Department of Energy	Influence of Boundary Conditions in Smart Environmental Testing	Nov-21	Aug-22	R0303030	\$70,000
Blotter, Jonathan	Co-PI	PhotoPharmics, Inc.	National Institutes of Health	Amelioration of opioid withdrawal-induced anxiety and craving with heterodyned whole body vibration	Jun-21	Jun-22	R0303005	\$62,678
Bowden, Anton	PI	National Institutes of Health		Arthritis, Musculoskeletal and Skin Diseases Research	Sep-21	Aug-24	R0102114	\$1,233,34 2
Bowden, Anton	PI	Healix Spine		Tri-axial Deployment Spinal Fusion Device	Jul-21	Dec-21	R0602665	\$12,500
Bowden, Anton	PI	Healix Spine		Tri-axial Deployment Spinal Fusion Device	Jul-21	Dec-21	R0602665	\$17,525
Charles, Steven	PI	National Institutes of Health		Predicting tremor: Developing a validated, subject-specific model of tremor	Aug-21	Jul-24	R0102113	\$444,507
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	R0112459	\$8,000

Cook, Douglas	PI	National Science Foundation		CAREER: Combining Engineering, Biomechanics, and Genetic Analysis to Enable the Design of Structurally Superior Grain Crops	Apr-21	Mar-26	R0112462	\$8,000
Cook, Douglas	PI	National Science Foundation		CAREER: Crop Biomechanics - Toward the Design of Superior Crop Architecture	Apr-21	Mar-26	R0112459	\$624,188
Cook, Douglas	PI	Bayer		Continuation: Maize Stalk Strength (Bayer Grant, transferred from NYU)	Jul-21	Jun-22	R0602668	\$25,198
Crane, Nathan	PI	National Science Foundation		Collaborative Research: Modulating Powder Bed Cohesion to Reduce Defects in Binder Jetting	Aug-20	Jul-23	R0112455	\$8,000
Crane, Nathan	PI	National Science Foundation		Could Slower Be Better? Assessing Sintering Time, Temperature, and Area Tradeoffs in Polymer Sintering	Aug-18	Jan-22	R0112411	\$8,000
Crane, Nathan	PI	National Science Foundation		Could Slower Be Better? Assessing Sintering Time, Temperature, and Area Tradeoffs in Polymer Sintering	Aug-18	Jan-22	R0112422	\$30,259
Fullwood, David	Co-PI	National Science Foundation		GOALI/Collaborative Research: Strain Gadient Plasticity Modeling to Link Microstructural Non-Local Effects of Dislocation/Interface Interactions with Ductility and Springback	Oct-19	Sep-22	R0112432	\$8,000
Gorrell, Steve	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-22	Ro302996	\$6,000
Gorrell, Steve	PI	OpenTeams		Analysis of a Large Turbomachinery Database Using Open Source Tool	Oct-21	Sep-22	R0602674	\$10,000
Gorrell, Steve	Co-PI	Concepts NREC		CFD Study of a Wide Flow Range Turbocharger Compressor	Nov-22	Dec-22	R0602672	\$10,000
Homer, Eric	PI	Department of Energy		Computational and Experimental Investigation of Cryogenic Grain Boundary Motion for Enhanced Mechanical Behavior and Properties	Aug-21	Jul-22	R0202473	\$183,414
Howell, Larry	Co-PI	Florida International University	Air Force Office of Scientific Research	Transforming Antennas Center (TAC)	Aug-19	Aug-24	R0302882	\$75,000
Howell, Larry	Co-PI	Science Systems and Applications, Inc.	National Aeronautics and Space Administration	Conceptual Design and Prototyping of Origami- Based Deployable Systems for LIDAR Telescopes	Jul-20	Mar-22	R0302931	\$10,615
Howell, Larry	Co-PI	Science Systems and Applications, Inc.	National Aeronautics and Space Administration	Conceptual Design and Prototyping of Origami- Based Deployable Systems for LIDAR Telescopes	Jul-20	Mar-22	Ro302931	\$10,000

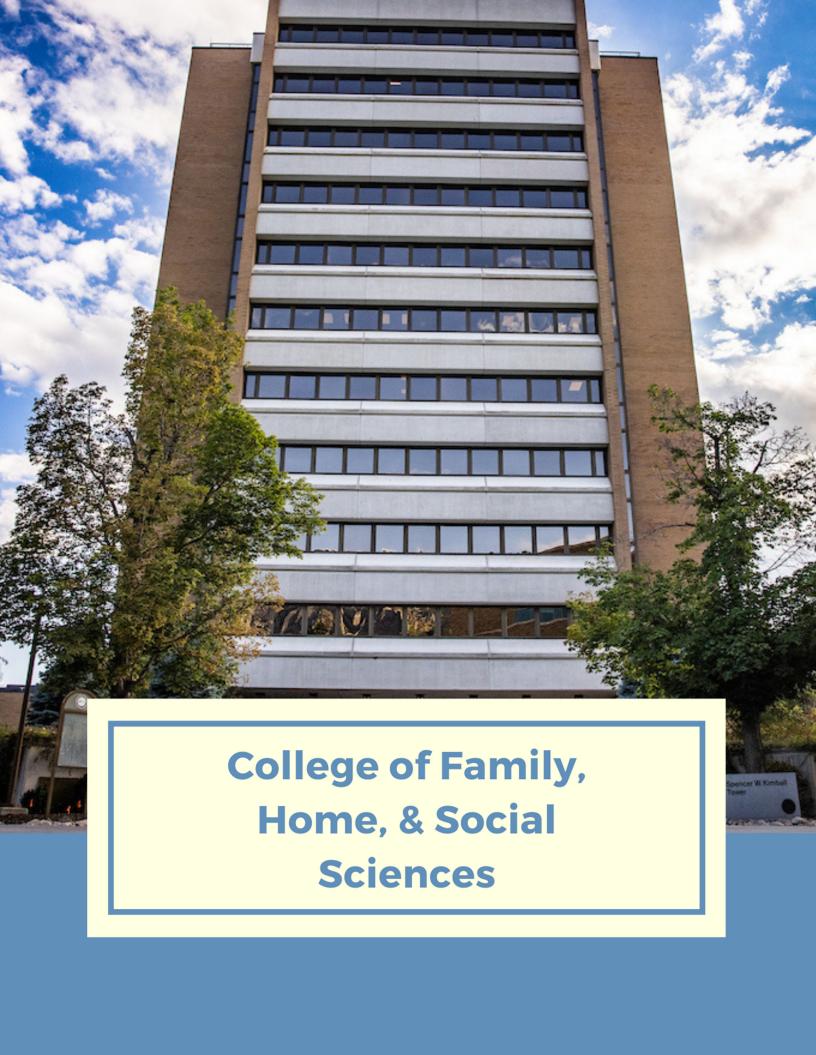
Howell, Larry	PI	VentureWell		LaparoVision: Eliminating Visual Disruption in Laparoscopic Surgery	Jun-21	Mar-22	R0502349	\$5,000
Howell, Larry	Co-PI	Healix Spine		Tri-axial Deployment Spinal Fusion Device	Jul-21	Sep-22	R0602665	\$17,525
Howell, Larry	Co-PI	Healix Spine		Tri-axial Deployment Spinal Fusion Device	Jul-21	Dec-21	R0602665	\$12,500
Iverson, Brian	PI	National Aeronautics and Space Administration		Passively Actuated, Triangular Fin Array for CubeSat Thermal Control	Aug-21	Aug-23	Ro162043	\$69,500
Jensen, Brian	Co-PI	Tula Health, Inc		TULA health - Non- Invasive health sensing	Apr-21	Mar-22	R0602659	\$100,000
Johnson, Oliver	PI	National Science Foundation		CAREER: CDS&E: Quantifying & Designing Grain Boundary Network Structure via Spectral Graph Theory	Jun-17	May-22	R0112336	\$71,103
Killpack, Marc	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-22	Ro302997	\$6,020
Magleby, Spencer	PI	Florida International University	Air Force Office of Scientific Research	Transforming Antennas Center (TAC)	Aug-19	Aug-24	Ro302882	\$75,000
Magleby, Spencer	PI	Science Systems and Applications, Inc.	National Aeronautics and Space Administration	Conceptual Design and Prototyping of Origami- Based Deployable Systems for LIDAR Telescopes	Jul-20	Mar-22	R0302931	\$10,615
Magleby, Spencer	PI	Science Systems and Applications, Inc.	National Aeronautics and Space Administration	Conceptual Design and Prototyping of Origami- Based Deployable Systems for LIDAR Telescopes	Jul-20	Mar-22	R0302931	\$10,000
Mattson, Chris	PI	United States Air Force Academy	Department of Defense	Promoting Desirability and Transerferability in Enginering Design through Customized Development Processes	May-19	Sep-21	Ro202505	\$6,061
Mattson, Chris	PI	United States Air Force Academy	Department of Defense	Effective Use of Product Architecture to Help Engineering Teams Manage Complexity in the Design Process	Oct-21	Sep-25	Ro202564	\$51,439
Maynes, Daniel	PI	Concepts NREC		CFD Study of a Wide Flow Range Turbocharger Compressor	Nov-21	Dec-21	R0602672	\$10,000
Maynes, Daniel	Co-PI	OpenTeams	National Aeronautics and Space Administration	Analysis of a Large Turbomachinery Database Using Open Source Tool	Oct-21	Sep-22	R0602675	\$10,000
McLain, Tim	PI	National Science Foundation		I/UCRC: Center for Unmanned Aircraft Systems, Phase II Site	Mar-17	Feb-22	R0112362	\$5,000
McLain, Tim	PI	National Science Foundation		I/UCRC: Center for Unmanned Aircraft Systems, Phase II Site	Mar-17	Feb-22	R0112367	\$20,000

McLain, Tim	PI	National Science Foundation		I/UCRC: Center for Unmanned Aircraft Systems, Phase II Site	Mar-17	Feb-22	R0112474	\$10,500
McLain, Tim	PI	National Science Foundation		I/UCRC: Center for Unmanned Aircraft Systems, Phase II Site - AFRL Munitions Add-on	Mar-17	Feb-22	R0112355	\$50,000
McLain, Tim	PI	National Science Foundation		I/UCRC: Center for Unmanned Aircraft Systems, Phase II Site - Interagency Memberships	Mar-17	Feb-22	R0112353	\$81,332
McLain, Tim	PI	National Science Foundation		I/UCRC: Center for Unmanned Aircraft Systems, Phase II Site - REU	Mar-17	Feb-22	R0112343	\$16,000
McLain, Tim	Co-PI	National Science Foundation		MRI: Development of a Local Air Traffic Information System (LATIS) for UAS Collision Avoidance Research	Oct-17	Sep-22	R0112473	\$3,125
McLain, Tim	PI	Scientific Systems Company, Inc.	Air Force	C-UAS Membership Dues	May-20	Jun-22	Ro302943	\$11,000
McLain, Tim	PI	Scientific Systems Company, Inc.	Air Force	C-UAS Membership Dues	May-20	Jun-22	Ro302943	\$33,000
McLain, Tim	PI	Utopia Compression	Air Force	RAPID: Airborne Visual Analytics (AVIAN) - C- UAS Membership Dues	Jun-19	Feb-22	Ro302879	\$5,500
McLain, Tim	PI	Utopia Compression	Air Force	RAPID: Airborne Visual Analytics (AVIAN) - C- UAS Membership Dues	Jun-19	Feb-22	Ro302879	\$5,500
McLain, Tim	PI	Utopia Compression	Air Force	RAPID: Airborne Visual Analytics (AVIAN) - C- UAS Membership Dues	Jun-19	Feb-22	Ro302879	\$5,500
McLain, Tim	PI	Archer Aviation	Air Force	STTR: Precision Landing Localization technology for autonomous eVTOL	Feb-21	Oct-21	R0303010	\$37,419
McLain, Tim	PI	University of Colorado, Boulder	National Science Foundation	Center for Unmanned Aircraft Systems Phase II, Managing Director Support	Apr-21	Mar-22	Ro302750	\$39,912
McLain, Tim	PI	Virginia Polytechnic Institute and State University	National Science Foundation	I/UCRC: Center for Unmanned Aircraft Systems Phase II, Managing Director Support	Mar-17	Feb-22	Ro302761	\$40,910
McLain, Tim	PI	Texas A&M University	National Science Foundation	Phase II IUCRC Texas A&M University: Center for Unmanned Air Systems C-UAS	Mar-20	Feb-22	Ro302953	\$39,627
McLain, Tim	PI	University of Michigan	National Science Foundation	Phase II IUCRC University of Michigan: Center for Unmanned Aircraft Systems (C-UAS)	Sep-17	Aug-21	Ro302777	\$37,753
McLain, Tim	Co-PI	Scientific Systems Company, Inc.	Air Force	AFX20D-TCSO1 TITLE: Phase I Open Topic supporting Agility Prime: Open Call for Innovative Defense-Related Dual- Purpose Technologies/Solutions	Jan-21	Jun-21	R0302974	\$22,588
McLain, Tim	Co-PI	ImSAR, LLC	Air Force	IMSAR Low-SWaP Sense and Avoid Solution for eVTOL / UAM Platforms	Dec-20	May-21	R0302964	\$27,589

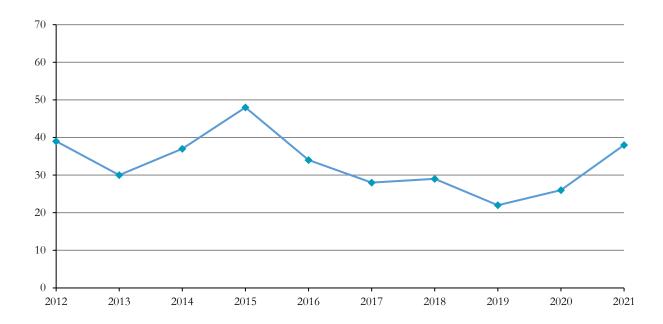
McLain, Tim	PI	AeroVironment		C-UAS I/UCRC Phase II Industry Sponsors	Mar-17	Feb-22	Ro302546	\$2,200
McLain, Tim	PI	AeroVironment		C-UAS I/UCRC Phase II Industry Sponsors	Mar-17	Feb-22	Ro302546	\$2,200
McLain, Tim	PI	AeroVironment		C-UAS I/UCRC Phase II Industry Sponsors	Mar-17	Feb-22	Ro302546	\$2,200
McLain, Tim	PI	AeroVironment		C-UAS I/UCRC Phase II Industry Sponsors	Mar-17	Feb-22	Ro302546	\$2,200
McLain, Tim	PI	Insitu (A Boeing Company)		C-UAS I/UCRC Phase II Industry Sponsors	Mar-17	Feb-22	R0302546	\$8,800
Munro, Troy	PI	National Science Foundation		EAGER: Feasibility of Parallelized Measurements of Kapitza Resistance	Aug-21	Jul-22	R0112464	\$149,977
Munro, Troy	PI	National Science Foundation		Improving Friction Stir Welding: Quantifying Thermal Interfaces using Thermal Waves	Jan-20	Dec-22	R0112431	\$8,000
Munro, Troy	PI	National Science Foundation		Improving Friction Stir Welding: Quantifying Thermal Interfaces using Thermal Waves	Jan-20	Dec-22	R0112431	\$8,000
Munro, Troy	PI	Idaho National Laboratory	Department of Energy	Development of a Diamond Substrate-based Hot-Wire Sensor for Irradiated Molten Salt Thermal Conductivity Measurements	Jul-20	Jun-21	R0302926	\$36,000
Ning, Andrew	PI	Whisper Aero	Air Force	STTR. eVTOL Acoustic Design Framework Development	Dec-20	Jun-21	R0302981	\$45,000
Ning, Andrew	PI	National Renewable Energy Laboratory	Department of Energy	2022 U.S. Department of Energy Collegiate Wind Competition	May-21	Jul-22	R0302991	\$20,000
Ning, Andrew	PI	National Renewable Energy Laboratory	Department of Energy	Advanced Numerical and Physics Modeling for Wind Plant Array Optimization	Oct-21	Sep-22	R0303024	\$119,999
Ning, Andrew	PI	Rutgers, The State University of New Jersey	Department of Energy	Computationally Efficient Atmospheric-Data-Driven Control Co-Design Optimization Framework with Mixed-Fidelity Fluid and Structure Analysis	Feb-21	Jan-22	R0302909	\$120,580
Ning, Andrew	PI	Rutgers, The State University of New Jersey	Department of Energy	Computationally Efficient Atmospheric-Data-Driven Control Co-Design Optimization Framework with Mixed-Fidelity Fluid and Structure Analysis	Feb-20	Jan-22	R0302909	\$60,000
Ning, Andrew	PI	National Renewable Energy Laboratory	Department of Energy	DOE Collegiate Wind Competition	Aug-20	Dec-21	Ro302985	\$20,000
Ning, Andrew	PI	National Renewable Energy Laboratory	Department of Energy	Multidisciplinary Optimization and Uncertainty Qualification of Wind Energy Systems	Dec-20	Sep-21	Ro302778	\$95,000

Ning, Andrew	PI	University of California- San Diego	National Aeronautics and Space Administration	Rapid development of urban air mobility vehicle concepts throughfull- configuration multidisciplinary design, analysis, and optimization	Oct-21	Sep-25	R0303031	\$230,000
Sorensen, Carl	Co-PI	United States Air Force Academy	Department of Defense	Promoting Desirability and Transferability in Engineering Design through Customized Development Processes	May-19	Sep-21	R0202505	\$6,061
Sorensen, Carl	Co-PI	National Aeronautics and Space Administration		DEVELOPMENT OF A METHODOLOGY FOR CHARACTERIZING THE TOOL/PART INTERFACE IN FRICTION STIR WELDING FOR IMPROVEMENT OF	Jan-19	Jan-22	R0162036	\$48,069
Sorensen, Carl	Co-PI	United States Air Force Academy	Department of Defense	Effective Use of Product Architecture to Help Engineering Teams Manage Complexity in the Design Process	Oct-21	Sep-25	R0202564	\$51,439
Sorensen, Carl	PI	Innovative Scientific Solutions Inc.	Air Force Research Laboratory	Ceramic Turbine Integration	Jan-21	May-21	Ro302973	\$22,000
Sorensen, Carl	PI	Innovative Scientific Solutions Inc.	Air Force Research Laboratory	Turbine Nozzle Traversing Probe	Sep-21	May-22	R0303026	\$22,000
Sorensen, Carl	PI	Sandia National Laboratories	Department of Energy	Capstone BYU project- Assessment of Two Machine Learning Algorithms for the xView Dataset	Dec-20	May-21	R030300 8	\$88,951
Sorensen, Carl	PI	Idaho National Laboratory	Department of Energy	Development of a nuclear fuel rod profilometry device	Jan-21	Apr-21	R0302979	\$27,000
Sorensen, Carl	PI	Idaho National Laboratory	Department of Energy	Malcolm Network Forensic Tool IDS Integration Development	Sep-21	Apr-22	R0303019	\$22,000
Sorensen, Carl	PI	Sandia National Laboratories	Department of Energy	Prototype Impact Tester	Jan-21	Jun-21	R0303006	\$5,000
Sorensen, Carl	PI	Idaho National Laboratory	Department of Energy	THOR Capsule Unloading Fixture	Sep-21	Apr-22	R0303021	\$25,000
Thomson, Scott	PI	National Institutes of Health		Imaging and Influence of Glottic and Subglottic Anatomy in healthy and stenotic patients	Sep-20	Aug-22	R0102087	\$524,360
Thomson, Scott	PI	McGill University	National Institutes of Health	Bioprintable composite materials and microfluidic tools for vocal fold restoration and repair	Jan-21	Dec-21	R0302965	\$136,702
School of Tech	nology							
Bartholomew, Scott	PI	Purdue University	National Science Foundation	Learning by evaluating (LbE): Engaging students in evaluation as a pedagogical	Aug-21	Jul-24	Ro303035	\$159,141
Giboney, Justin	Co-PI	Sandia National Laboratories	Department of Energy	Sandia cybersecurity camp sponsorship	Jul-21	Sep-21	R0303015	\$9,900

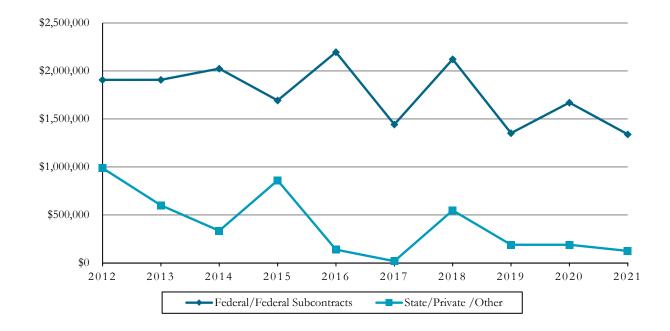
Hansen, Derek	PI	Sandia National Laboratories	Department of Energy	Sandia cybersecurity camp sponsorship	Jul-21	Sep-21	Ro303015	\$10,200
Hughes, Amanda	Co-PI	National Aeronautics and Space Administration		Improving Resiliency and Reducing Risk due to Extreme Hydrologic Events through Application of Earth Observations and In-Situ Monitoring Information	Nov-19	Oct-22	R0162040	\$81,318
Hughes, Amanda	PI	Clemson University	National Science Foundation	SCC-PG: Human-AI Teaming for Flood Evacuation Decision Making	Oct-21	Sep-22	R0303028	\$24,668



Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
	2	2		#20.1.40
Anthropology	2	2	1	\$30,140
Economics	5	14	6	\$312,010
Geography	2	2	1	\$11,736
History	3	4	5	\$460,582
Museum of Peoples & Cultures	0	0	0	\$0
Office of Public Archaeology	0	0	0	\$0
Political Science	1	1	2	\$466,119
Psychology	7	10	2	\$153,097
School of Family Life	3	3	0	\$0
School of Social Work	1	1	1	\$18,017
Sociology	1	1	1	\$12,198
TOTAL	S 25	38	19	\$1,463,898



	Grants/Co	ontracts		
Year	Federal/Federal Subcontracts	State/Private /Other	Total	
2012	\$1,907,383	\$987,853	\$2,564,522	
2013	\$1,908,007	\$600,123	\$2,377,935	
2014	\$2,024,525	\$334,700	\$2,359,225	
2015	\$1,692,729	\$859,560	\$2,552,289	
2016	\$2,196,122	\$137,839	\$2,333,961	
2017	\$1,442,760	\$18,636	\$1,461,396	
2018	\$2,121,801	\$547,574	\$2,669,375	
2019	\$1,351,545	\$188,421	\$1,539,966	
2020	\$1,669,813	\$188,847	\$1,858,660	
2021	\$1,339,532	\$124,366	\$1,463,898	



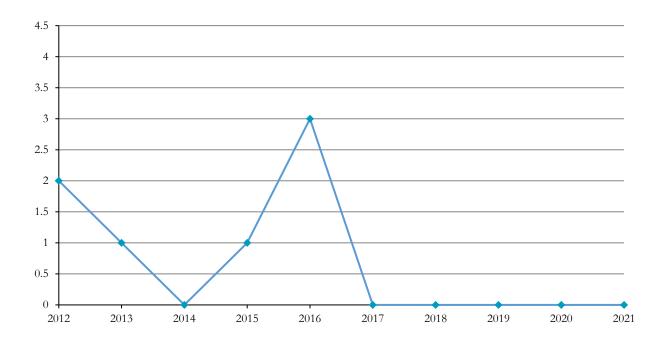
College of Family, Home, & Social Sciences 2021 Awards

Researcher	<u>Role</u>	<u>Sponsor</u>	<u>Prime</u> Sponsor	<u>Title</u>	Beg Da	te End Da	te Account	Amount
Anthropolog	ıy							
Allison, Jim	PI	School and Institutional Trust Lands Administration		Coal Bed Village Excavation	Jun-21	Dec-25	R0402372	\$30,140
Economics								
Denning, Jeff	PI	Columbia University	Arnold Ventures	The Effect of Graduate PLUS Student Loan Increases on Access, Program Prices, Student Debt, and Labor Market Outcomes	Jan-21	Dec-21	R0502346	\$25,976
Pope, Arden	PI	Carnegie Mellon University	Environmental Protection Agency	Center for Air, Climate, and Energy Solutions (CASES)	May-16	Apr-21	R0302696	\$20,000
Pope, Arden	PI	University of Louisville	National Institutes of Health	Endothelial progenitor cells and particulate air pollution	Apr-20	Mar-22	R0302786	\$60,624
Price, Joe	PI	Department of Agriculture		Differences in School Meal Nutritional Characteristics Under the SBP/NSLP Standards and the Summer Food Service Program During Period of COVID- related Waivers	Jul-21	May-23	R0152021	\$35,000
Price, Joe	PI	Colorado School of Mines	National Science Foundation	Property, People, and Progress along Frontiers: How Land Policy Impacts Selection and Outcomes	Sep-21	Aug-24	R0303023	\$143,160
Price, Joe	PI	University of Toronto		Solving the 2 Sigma Problem with Khan Academy: A Pilot Study	Jul-20	Dec-21	R0502347	\$27,250
Geography								
Bekker, Matt	PI	Utah State University	National Science Foundation	Hydroclimate Variability and the Evolution of Socioecological Complexity in Dryland Farming Communities	Aug-21	Aug-22	R0303022	\$11,736
History								
Cannon, Brian	PI	The Church of Jesus Christ of Latter-day Saints		Ottoman Census of Palestine Index/Research	May-21	Dec-21	R0702020	\$17,500
Crandell, Jill	PI	University of Wisconsin, Madison	Department of Defense	Defense POW/MIA Accounting Agency Repatriation Project	Sep-19	Sep-22	R0302894	\$75,000
Crandell, Jill	PI	University of Washington		Linking Families for Cancer Prevention	Aug-21	Jul-22	Ro802048	\$6,000

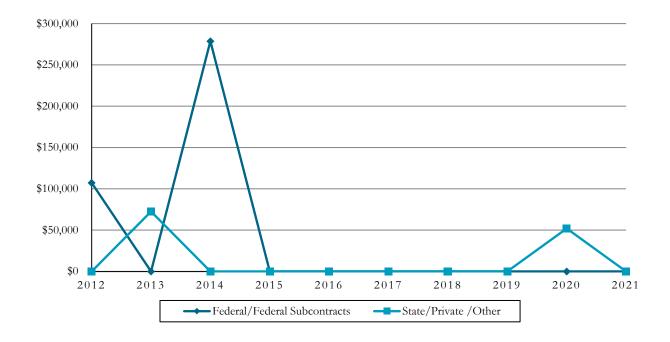
McCollum, Jonathon	Co-PI	The Church of Jesus Christ of Latter-day Saints		Ottoman Census of Palestine Index/Research	May-21	Dec-21	R0702020	\$17,500
Shumway, Jeffrey	PI	University of Utah	Department of Education	Intermountain Consortium for Latin American Studies Undergraduate FLAS Program	Aug-18	Aug-22	R0302823	\$279,000
Shumway, Jeffrey	PI	University of Utah	Department of Education	Intermountain Consortium for Latin American Studies Undergraduate NRC and FLAS programs (NRC)	Aug-18	Aug-22	Ro302839	\$65,582
Political Scie	ence							
		National		EAGER: Harnessing				
Argyle, Lisa	Co-PI	Science Foundation		Accurate Bias in Large-Scale Language Models	Sep-21	Feb-23	R0112468	\$24,292
Busby, Ethan	Co-PI	National Science Foundation		EAGER: Harnessing Accurate Bias in Large-Scale Language Models	Sep-21	Feb-23	R0112468	\$24,292
Gubler, Joshua	Co-PI	National Science Foundation		EAGER: Harnessing Accurate Bias in Large-Scale Language Models	Sep-21	Feb-23	R0112468	\$24,292
Hyer, Eric	PI	University of Utah	Department of Education	Intermountain Consortium for Asian and Pacific Studies Undergraduate FLAS Program	Aug-18	Aug-22	R0302824	\$289,500
Hyer, Eric	PI	University of Utah	Department of Education	Intermountain Consortium for Asian and Pacific Studies Undergraduate NRC and FLAS Programs (NRC)	Aug-19	Aug-22	R0302829	\$103,744
Psychology								
Kirwan, Brock	Co-PI	Temple University	National Science Foundation	SaTC: CORE: Small: The Blurring of Non-essential Notifications and Critical Security Warnings: Examining the Problem of Generalization in the Brain	Sep-18	Aug-21	Ro302878	\$6,878
Steffensen, Scott	PI	National Institutes of Health		Novel methods of acupuncture delivery in the treatment of drug-abuse disorders	Jan-21	Dec-21	R0102092	\$81,642
Steffensen, Scott	PI	PhotoPharmics, Inc.	National Institutes of Health	Amelioration of opioid withdrawal-induced anxiety and craving with heterodyned whole body vibration	Jun-21	Jun-22	R0303005	\$64,577
School of Soc	cial Woı	rk						
Clark, Charlene	PI	Utah Commission on Service and Volunteerism		AmeriCorps Program 2021- 2022	Aug-21	Jul-22	R0303018	\$18,017
Sociology								
Ward, Carol	PI	Chief Dull Knife College	National Science Foundation	Evaluation of CDKC project: Research Engagement Across Curricular Tracks	Oct-21	Sep-22	R0302636	\$12,198

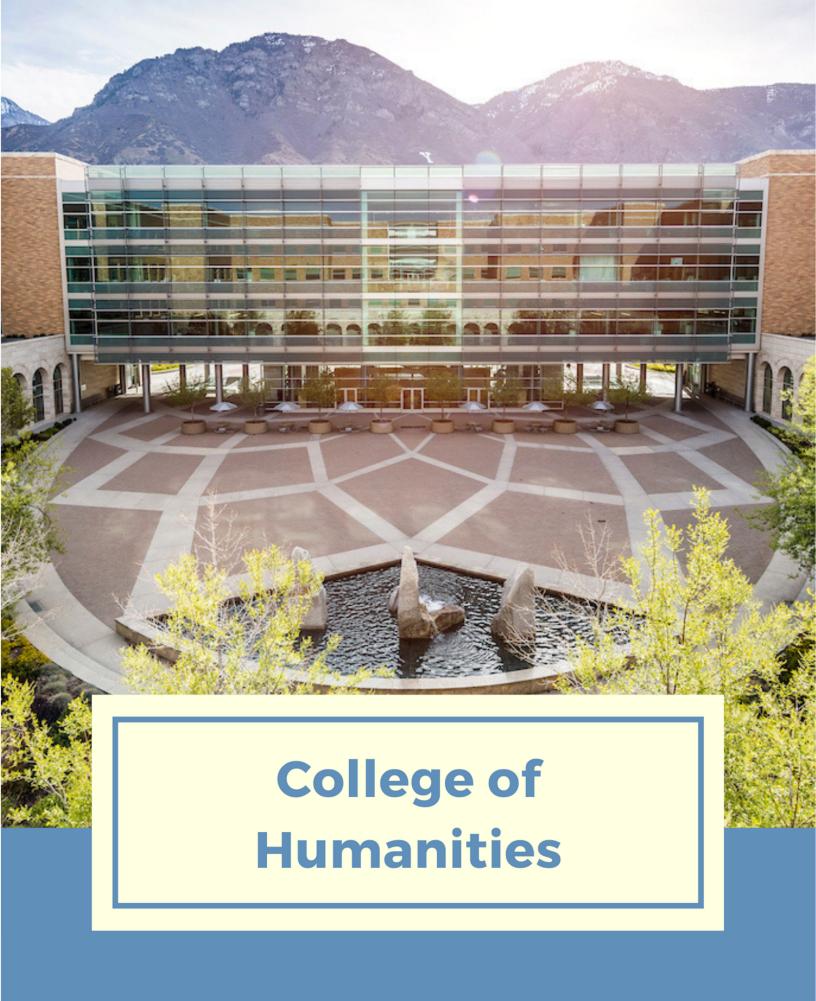


Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Art	0	0	0	\$0
Communications	0	0	0	\$0
Dance	0	0	0	\$0
Design	0	0	0	\$0
School of Music	0	0	0	\$0
Theatre & Media Arts	0	0	0	\$0
TOTALS	0	0	0	\$0

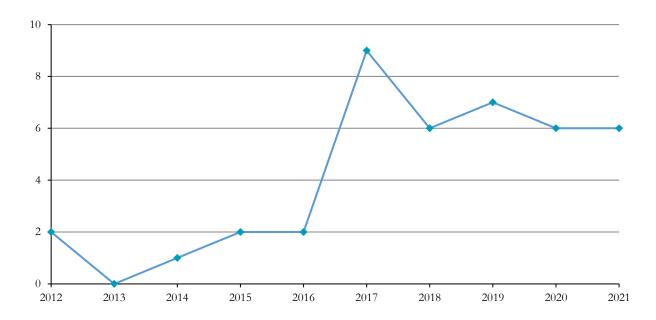


	Grants/Contracts		
Year	Federal/Federal	State/Private	Total
	Subcontracts	/Other	
2012	\$107,250	\$0	\$107,250
2013	\$0	\$72,500	\$72,500
2014	\$278,688	\$0	\$278,688
2015	\$0	\$0	\$0
2016	\$0	\$0	\$0
2017	\$0	\$0	\$0
2018	\$0	\$0	\$0
2019	\$0	\$0	\$0
2020	\$0	\$51,938	\$51,938
2021	\$0	\$0	\$0

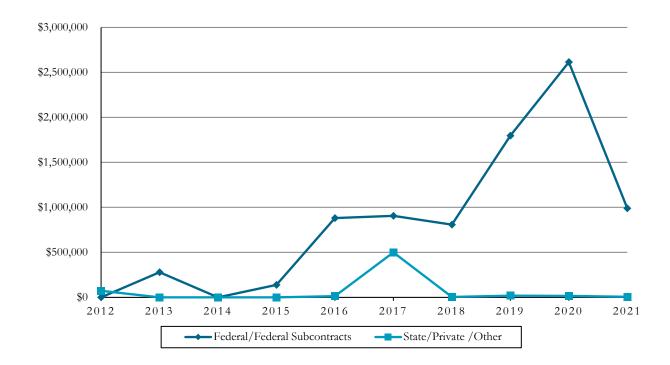




Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Asian & Near Eastern Languages	3	6	7	\$939,267
Comparative Arts & Letters	0	0	2	\$5,372
English	0	0	0	\$0
French & Italian	0	0	0	\$0
German & Russian	0	0	0	\$0
Linguistics	0	0	0	\$0
Philosophy	0	0	0	\$0
Spanish & Portuguese	0	0	0	\$0
TOTALS	3	6	9	\$944,640



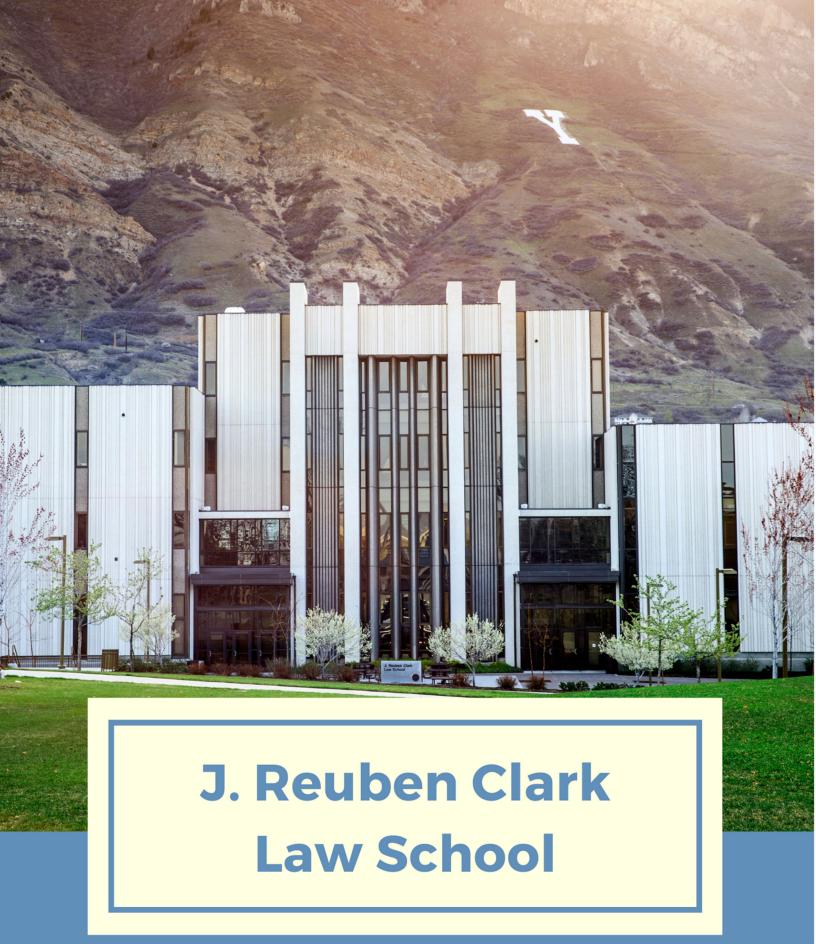
	itracts	Grants/Contracts				
Total	State/Private	Federal/Federal	Year			
	/Other	Subcontracts				
\$72,500	\$72,500	\$0	2012			
\$278,688	\$0	\$278,688	2013			
\$0	\$0	\$0	2014			
\$137,798	\$0	\$137,798	2015			
\$892,903	\$12,320	\$880,583	2016			
\$1,403,942	\$499,520	\$904,942	2017			
\$811,501	\$4,000	\$807,501	2018			
\$1,813,832	\$18,000	\$1,795,832	2019			
\$2,629,438	\$15,453	\$2,613,986	2020			
\$944,640	\$5,372	\$939,268	2021			



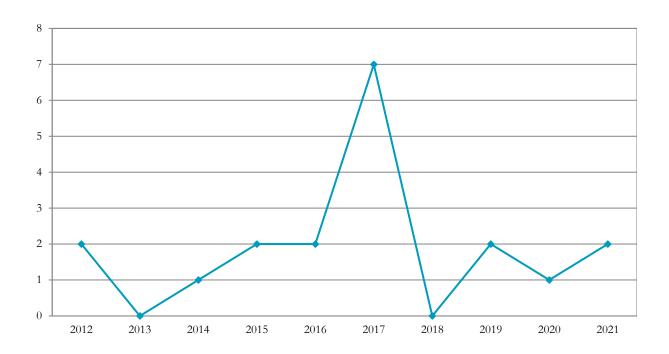
College of Humanities 2021 Awards

Researcher	<u>Role</u>	Sponsor	<u>Prime</u> Sponsor			End Date	Account	<u>Amount</u>
Asian & Near	r Easter	n Languages						
Belnap, Kirk	PI	Institute of International Education	Department of Defense	Arabic Flagship Center Student Support 21-22	Mar-21	Feb-22	R0303002	\$60,000
Belnap, Kirk	PI	Institute of International Education	National Security Education Program	Arabic Flagship Center-Domestic FY 21-22	Jun-21	Mar-22	R0302999	\$324,997
Belnap, Kirk	PI	Institute of International Education	National Security Education Program	Arabic Flagship Center 2020-2021	Jun-20	May-21	R0302914	\$54,135
Christensen, Matthew	PI	Institute of International Education	Department of Defense	Chinese Flagship Center Student Support 20-21	Apr-20	Mar-21	Ro302908	\$14,233
Christensen, Matthew	PI	Institute of International Education	Department of Defense	Chinese Flagship Center Student Support 20-21	Mar-21	Feb-22	R0303003	\$106,750
Christensen, Matthew	PI	Institute of International Education	National Security Education Program	BYU Domestic Chinese Flagship Program 2020-2021	Jun-20	Mar-21	R0302913	\$54,155
Christensen, Matthew	PI	Institute of International Education	National Security Education Program	Chinese Flagship Center-Domestic FY 21-22	Jun-21	Mar-22	R0303000	\$324,997
Comparative	e Arts &	Letters						
Kramer, Nate	PI	Finnish National Agency for Education		Support for the Teaching of Finnish Language and Culture	Jan-20	Dec-21	R0570032	\$2,770
Kramer, Nate	PI	Finnish National Agency for Education		Support for the Teaching of Finnish Language and Culture	Jan-20	Dec-21	R0570032	\$2,602

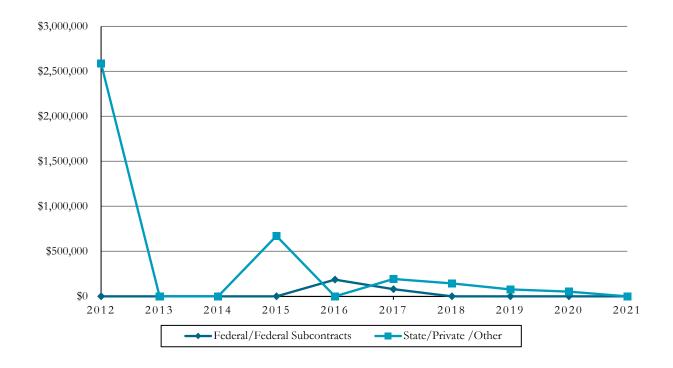
College of Humanities Annual Report 2021 | 65

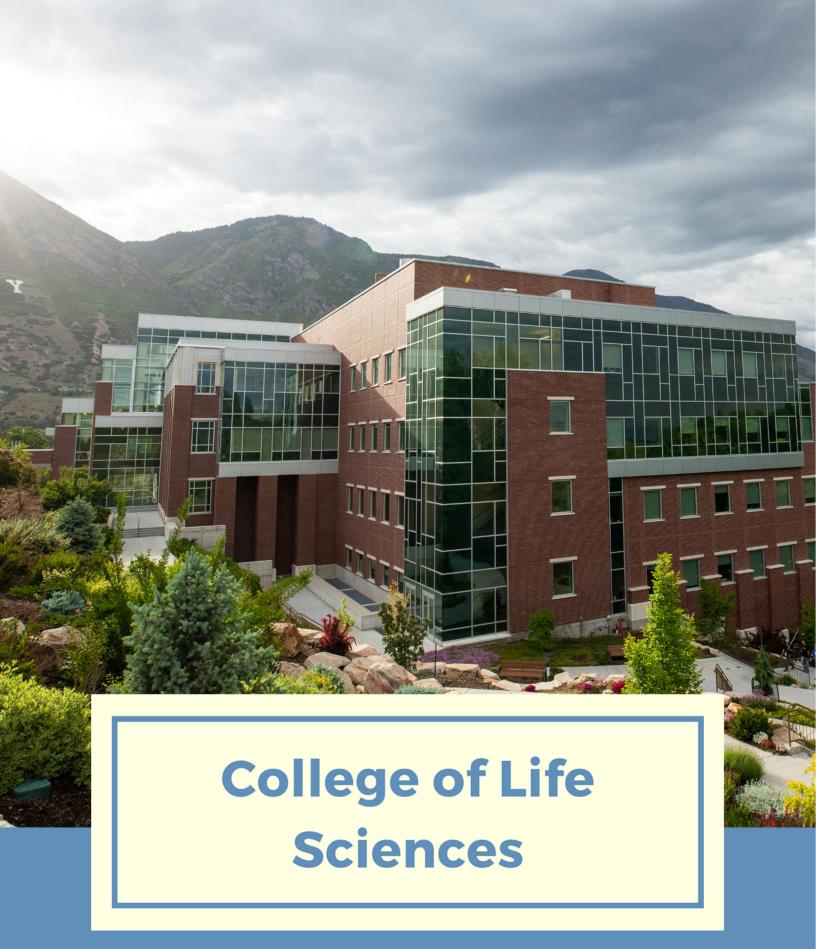


Department		# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Law School	TOTALS	1	2 2	0	\$0 \$0



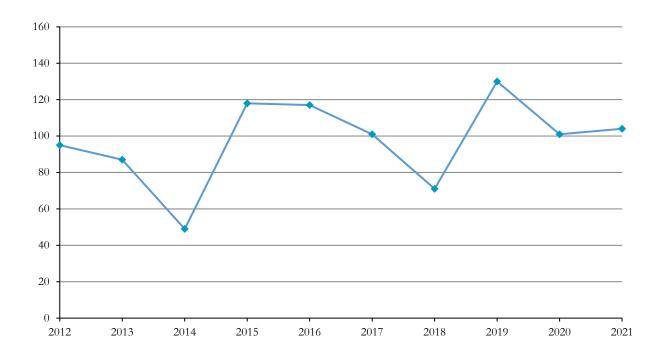
Total	Grants/Contracts		
	State/Private	Federal/Federal Subcontracts	Year
\$0	\$0	\$0	2013
\$0	\$0	\$0	2014
\$670,637	\$670,637	\$0	2015
\$185,790	\$0	\$185,790	2016
\$270,989	\$191,800	\$79,189	2017
\$143,423	\$143,423	\$0	2018
\$76,117	\$76,117	\$0	2019
\$51,568	\$51,568	\$0	2020
\$0	\$0	\$0	2021



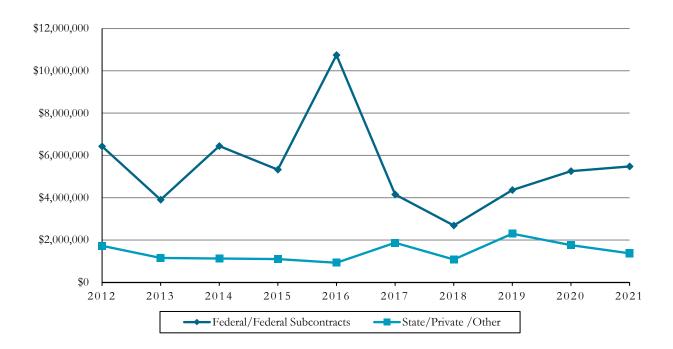


Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Monte L. Bean Life Science Museum	1	1	1	\$24,000
Biology	12	20	13	\$1,879,072
Cell Biology & Physiology	10	15	5	\$278,857
Exercise Science	5	7	2	\$261,705
Microbiology & Molecular Biology	8	15	9	\$819,479
Nutrition, Dietetics & Food Science	5	11	7	\$780,445
Plant & Wildlife Sciences	16	29	32	\$2,270,034
Public Health	6	6	1	\$535,577
TOTALS	63	104	70	\$6,849,169

Proposal Submissions



	Grants/Co	ontracts	
Year	Federal/Federal Subcontracts	State/Private /Other	Total
2012	\$6,426,283	\$1,727,334	\$8,163,617
2013	\$3,905,977	\$1,151,388	\$4,988,584
2014	\$6,442,140	\$1,125,358	\$7,567,498
2015	\$5,327,507	\$1,099,440	\$6,426,947
2016	\$10,743,176	\$929,921	\$11,673,097
2017	\$4,154,421	\$1,869,843	\$6,024,264
2018	\$2,688,968	\$1,082,714	\$3,771,682
2019	\$4,363,993	\$2,301,116	\$6,665,109
2020	\$5,256,149	\$1,760,079	\$7,016,228
2021	\$5,477,453	\$1,371,716	\$6,849,169



College of Life Sciences 2021 Awards

Researcher	<u>Role</u>	Sponsor	<u>Prime</u> Sponsor	<u>Title</u>	Beg Date	End Date	Account	Amount
Biology								
Belk, Mark	PI	Kodiak Roofing & Waterproofing company		Marine food web in Icy Strait Alaska using stable isotope analysis	Jun-21	May-23	R0602661	\$33,390
Bybee, Seth	PI	National Science Foundation		Collaborative Research: Shedding light on firefly phylogenetic systematics and the evolution of their sexual signal types	Feb-18	Jun-21	R0112371	\$15,000
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-21	R0112441	\$3,525
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-21	R0112442	\$25,514
Griffen, Blaine	PI	National Science Foundation		Can optimal energy allocation in bioenergetic models improve predictions?	Sep-21	Aug-24	R0112469	\$411,574
Jensen, Jamie	Co-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-21	R0112441	\$3,525
Jensen, Jamie	Co-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-21	R0112442	\$25,514
Kauwe, Keoni	Co-PI	Washington State University	National Institutes of Health	Natives Engaged in Alzheimer's Research	Aug-21	Apr-22	R0303014	\$165,805
Kauwe, Keoni	PI	Icahn School of Medicine at Mt. Sinai	National Institutes of Health	Integrative Network Modeling of Cognitive Resilience to Alzheimer's Disease	Sep-17	May-22	Ro302775	\$30,030
Koide, Roger	PI	University of Montana	Department of Energy	Mycorrhizal networks, plant carbohydrate depletion and vulnerability to drought: an experimental test in the field	Sep-21	Aug-23	R0303039	\$10,500

				Characterizing genetic				
Leavitt, Steve	PI	Bureau of Land Management		diversity in populations of Florida Perforate Cladonia	Jul-21	Dec-22	Ro202553	\$7,931
Leavitt, Steve	PI	The University of Tennessee, Knoxville		Digitization TCN: Collaborative Research: Building a global consortium of bryophytes and lichens: keystones of cryptobiotic communities	Sep-20	Aug-23	R0302966	\$11,093
Nelson, Riley	Co-PI	Utah Department of Natural Resources		Megafire impacts on terrestrial and aquatic ecosystems and management interventions to protect wildlife habitat and watershed hydrology	Jul-20	Jun-21	R0402356	\$7,350
Nelson, Riley	Co-PI	Utah Department of Natural Resources		Megafire impacts on terrestrial and aquatic ecosystems and management interventions to protect wildlife habitat and watershed hydrology	Jul-21	Jun-22	R0402371	\$14,493
Payne, Samuel	Co-PI	National Institutes of Health		Biochemical Consequences of Regiospecific Metabolic Bias in the Brain	May-20	Feb-22	R0102106	\$147,563
Payne, Samuel	Co-PI	National Institutes of Health		Fully Automated and Ultra- high Throughput Platform for In-depth Single Cell Proteomics	Sep-20	Aug-22	R0102106	\$165,263
Payne, Samuel	PI	Leidos Biomedical Research	National Institutes of Health	PanCancer Proteogenomic Analysis	Sep-21	Apr-23	R0303013	\$67,500
Payne, Samuel	PI	New York University	National Institutes of Health	Proteogenomic Data Analysis for Cancer Systems Biology and Clinical Translation	Sep-18	Aug-21	R0302818	\$107,683
Payne, Samuel	PI	New York University	National Institutes of Health	Proteogenomic Data Analysis for Cancer Systems Biology and Clinical Translation	Sep-18	Aug-22	R0302818	\$25,000
Ridge, Perry	PI	Washington State University	National Institutes of Health	Natives Engaged in Alzheimer's Research	Aug-21	Apr-22	R0303014	\$165,805
Stowers, Josh	Co-PI	National Science Foundation		Developing Three- dimensional Science Teachers in Underserved Rural Settings	Sep-21	Aug-25	R0112461	\$5,280
Stowers, Josh	Co-PI	National Science Foundation		Developing Three- dimensional Science Teachers in Underserved Rural Settings	Sep-21	Aug-25	R0112460	\$137,259
Stowers, Josh	Co-PI	National Science Foundation		Developing Three- dimensional Science Teachers in Underserved Rural Settings	Sep-21	Aug-25	R0112460	\$5,280
Stowers, Josh	Co-PI	National Science Foundation		Developing Three- dimensional Science Teachers in Underserved Rural Settings	Sep-21	Aug-25	R0112461	\$59,136
Stowers, Josh	Co-PI	National Science Foundation		Developing Three- dimensional Science Teachers in Underserved Rural Settings	Sep-21	Aug-25	R0112460	\$228,060

Cell Biology & Physiology

Bikman, Benjamin	PI	Levels Health		Understanding the paradoxical rise in blood glucose in the context of a low-carbohydrate diet and the use of real-time glycemic status to alter behavior	Feb-21	Jan-22	R0602653	\$130,000
Hansen, Jason	PI	University of Oklahoma	National Institutes of Health	Hyperoxic Modulation of Thioredoxin Signaling	Nov-20	Jun-21	R0302969	\$37,500
Hansen, Jason	PI	University of Oklahoma	National Institutes of Health	Hyperoxic Modulation of Thioredoxin Signaling	Nov-20	Jun-22	R0302969	\$37,500
Hansen, Jason	PI	University of Pittsburgh	National Institutes of Health	Mechanism of Telomere- Mediated Lung Disease	Jul-20	Jun-21	R0302816	\$46,056
Jenkins, Timothy	PI	Inherent Biosciences, Inc.		A Study of Semen Quality and Sperm Epigenetics Among Healthy Men Before and After Nutritional Supplementation	Aug-21	May-22	R0602663	\$27,801
Exercise Scie	псе							
Bruening, Dustin	PI	National Science Foundation		Don't forget the foot! Exposing foot energetics to enhance foot orthoses and gait rehabilitation.	Feb-21	Jan-24	R0112452	\$196,527
Feland, Brent	Co-PI	PhotoPharmics, Inc.	National Institutes of Health	Amelioration of opioid withdrawal-induced anxiety and craving with heterodyned whole body vibration	Jun-21	Jun-22	R0303005	\$62,678
Hopkins, Ty	PI	American College of Sports Medicine		Effects of 4-week Augmented Neuromuscular Training Via External Feedback on Movement Strategies in Individuals with Chronic Ankle Instability	May-21	Apr-22	R0502348	\$2,500
Microbiology	j & Mole	cular Biology						
Griffitts, Joel	Co-PI	Western Dairy Center	Utah State University	BIOCONVERSION OF DAIRY LACTOSE TO RARE SUGARS	Jul-20	Jun-22	R0502334	\$17,895
Grose, Julianne	PI	National Institutes of Health		Investigating the partitioning of glucose to lipids versus respiration, an undergraduate-based approach to dissect a pivotal point of metabolic control	Sep-20	Aug-23	R0102111	\$437,614
Grose, Julianne	PI	Beekeeping 101		Manipulating the Microbiome of small hive beetles and Varroa mites.	Jun-19	May-21	R0602602	\$250
Robison, Richard	PI	Bruce Lindorf Memorial Foundation		Microbial Pathogens Involved in Tick-borne Diseases	Jan-21	Dec-21	R0502320	\$53,420
Robison, Richard	PI	Bruce Lindorf Memorial Foundation		Microbial Pathogens Involved in Tick-borne Diseases	Jan-21	Dec-21	R0502320	\$13,050
Robison, Richard	PI	Bruce Lindorf Memorial Foundation		Microbial Pathogens Involved in Tick-borne Diseases	Jan-21	Dec-22	R0502320	\$54,770

Robison, Richard	PI	Pennsylvania State University		SARS-CoV-2 Nasal Pharyngeal and Oral Pharyngeal Wash (SNOW) Trial	Nov-21	Sep-22	Ro802049	\$60,000
Robison, Richard	PI	Young Living Holdings, LLC		The Antimicrobial Effects of Essential Oil Mixtures	Feb-19	Jul-22	R0602592	\$18,000
Robison, Richard	PI	Zehn-X		The Inactivation Kinetics of a Novel Disinfectant Formula used in ZEHN-X Wipes on SARS-CoV-2	Dec-20	Jan-21	R0602652	\$20,000
Wilson, Eric	PI	Montana State University	National Institutes of Health	Role of the Staphylococcus aureus SaeR/S regulatory system in neutrophil evasion	Jul-21	Jun-22	R0302905	\$144,480
Monte Bean I	Life Scie	nce Museum						
Rogers, Duke	PI	Center for the Involvement of Teacher Education and Schooling		Education Partnership-Bean Museum	Jan-11	Dec-21	R0502113	\$24,000
Nutrition, Di	etetics, &	& Food Science						
Ahlborn, Gene	PI	Alliance for Potato Research and Education		The Effect of Potatoes on Vegetable Consumption	Nov-21	Dec-22	R0602675	\$9,308
Bellini, Sara	Co-PI	Alliance for Potato Research and Education		The Effect of Potatoes on Vegetable Consumption	Nov-21	Dec-22	R0602675	\$8,776
Jefferies, Laura	Co-PI	Alliance for Potato Research and Education		The Effect of Potatoes on Vegetable Consumption	Nov-21	Dec-22	Ro602675	\$8,776
LeCheminant, James	Co-PI	Alliance for Potato Research and Education		The Effect of Potatoes on Vegetable Consumption	Nov-21	Dec-22	Ro602675	\$8,776
Patten, Emily	Co-PI	Alliance for Potato Research and Education		The Effect of Potatoes on Vegetable Consumption	Nov-21	Dec-22	Ro602675	\$8,776
Pike, Oscar	Co-PI	Utah Department of Agriculture	Department of Agriculture	Identification and evaluation of high-yielding Pinus edulis native to the Four Corners as pine-nut crops	Nov-20	Sep-23	Ro302971	\$25,815
Pike, Oscar	PI	Welfare Services, The Church of Jesus Christ of Latter-day Saints		BYU Quality Assurance Laboratory	Jan-21	Dec-21	R0700031	\$54,000
Pike, Oscar	PI	Welfare Services, The Church of Jesus Christ of Latter-day Saints		BYU Quality Assurance Laboratory	Jan-21	Dec-22	R070031	\$5,000
Steele, Frost	PI	Deseret Meats - The Church of Jesus Christ of Latter-day Saints		Pathogen Analysis for Meat Products Produced at Deseret Meats & Houston Peanut Butter	Jan-21	Dec-21	R0702001	\$65,250
Stokes, Nathan	Co-PI	Alliance for Potato Research and Education		The Effect of Potatoes on Vegetable Consumption	Nov-21	Dec-22	R0602675	\$8,776

Taylor, Brad	Co-PI	Western Dairy Center		Rapid and Sensitive Detection of Foodborne Pathogens in Dairy Powders	Jul-21	Jun-23	Ro502353	\$34,797
Taylor, Brad	PI	Western Dairy Center		BIOCONVERSION OF DAIRY LACTOSE TO RARE SUGARS	Jul-20	Jun-22	Ro502334	\$17,895
Tessem, Jeff	PI	National Institutes of Health		Sex dependent function of the orphan nuclear receptor Nr4a1 in the pancreatic beta cell during Type 2 Diabetes disease progression	Apr-21	Mar-24	R0102112	\$441,165
Tessem, Jeff	PI	North Carolina State University	Department of Agriculture	Bioavailable gut microbial metabolites potentiate the beta-cell stimulatory and anti-obesity activities of poorly-bioavailable cocoa flavanols	Apr-21	Mar-22	R0302903	\$83,333
Plant & Wildl	life Scie	nces						
Aanderud, Zach	Co-PI	National Science Foundation		Collaborative Research: Network Cluster: Dust in the Critical Zone from the Great Basin to the Rocky Mountains	Sep-21	Aug-22	R0112444	\$70,023
Aanderud, Zach	PI	State of Utah Department of Environmental Quality		Monitoring Utah's Wastewater to Assist in Utah's Response to the COVID-19 Pandemic	Jul-20	Dec-20	R0402358	\$34,599
Aanderud, Zach	PI	Utah Department of Health		Monitoring Utah's Wastewater to Assist in Utah's Response to the COVID-19 Pandemic	Jan-21	Jul-21	R0402366	\$58,905
Abbott, Ben	PI	National Science Foundation		Collaborative Research: Network Cluster: Using Big Data approaches to assess ecohydrological resilience across scales	Sep-21	Aug-22	R0112445	\$56,875
Abbott, Ben	Co-PI	Utah Department of Natural Resources		Megafire impacts on terrestrial and aquatic ecosystems and management interventions to protect wildlife habitat and watershed hydrology	Jul-20	Jun-21	R0402356	\$7,350
Abbott, Ben	Co-PI	Utah Department of Natural Resources		Megafire impacts on terrestrial and aquatic ecosystems and management interventions to protect wildlife habitat and watershed hydrology	Jul-21	Jun-22	R0402371	\$14,493
Anderson, Val Jo	Co-PI	US Fish and Wildlife Service	Department of Interior	Natural Resources Support for Natural Resources Program, UTTR, Utah and Nevada	Sep-19	Sep-22	Ro202533	\$25,956
Anderson, Val Jo	Co-PI	Rio Tinto Kennecott		Improving Vegetation Establishment on Kennecott Mine Waste Rock Dumps and Tailings	Jun-20	Dec-21	Ro6o2635	\$25,435
Anderson, Val Jo	Co-PI	Rio Tinto Kennecott		Improving Vegetation Establishment on Kennecott Mine Waste Rock Dumps and Tailings	Jun-20	Dec-21	R0602635	\$20,000
Flinders, Loreen Allphin	PI	USDA U.S. Forest Service		RE-MONITORING OF LONG-TERM GRAZING PADDOCKS ON THE DESERT EXPERIMENTAL RANGE IN UTAH, USA	Jul-21	Sep-22	Ro202554	\$15,107
Frandsen, Paul	Co-PI	Utah Department of Natural Resources		Megafire impacts on terrestrial and aquatic ecosystems and management interventions to protect	Jul-20	Jun-21	R0402356	\$7,350

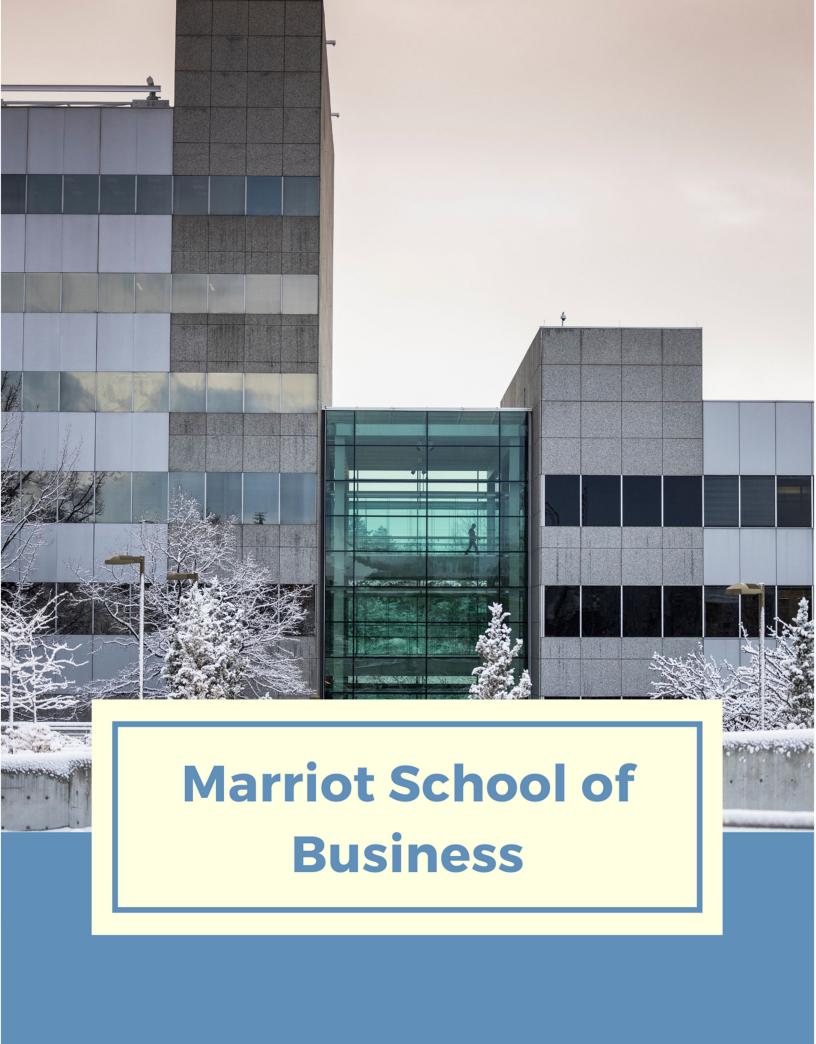
				wildlife habitat and watershed hydrology				
Frandsen, Paul	Co-PI	Utah Department of Natural Resources		Megafire impacts on terrestrial and aquatic ecosystems and management interventions to protect wildlife habitat and watershed hydrology	Jul-21	Jun-22	R0402371	\$14,493
Geary, Bradley	PI	Department of Agriculture		Control of Pythium Leak (Pythium Ultimum) and Silver Scurf (Helminthosporium Solani) Infection of Potato Using Antagonistic Streptomycetes	Jul-18	Jun-22	R0152014	\$25,900
Geary, Bradley	PI	Western Dairy Center		Rapid and Sensitive Detection of Foodborne Pathogens in Dairy Powders	Jul-21	Jun-23	Ro502353	\$34,797
Geary, Bradley	Co-PI	Rio Tinto Kennecott		Improving Vegetation Establishment on Kennecott Mine Waste Rock Dumps and Tailings	Jun-20	Dec-21	Ro602635	\$25,435
Geary, Bradley	Co-PI	Rio Tinto Kennecott		Improving Vegetation Establishment on Kennecott Mine Waste Rock Dumps and Tailings	Jun-20	Dec-21	Ro602635	\$20,000
Hansen, Neil	PI	Utah State University	4R Research Fund	Stacking and Intersecting Nutrient and Irrigation 4R's	Jan-21	Dec-21	R0502317	\$20,069
Hansen, Neil	PI	Utah State University	Department of Agriculture	Identifying Stacked Conservation Practices that Optimize Water Use in Agriculture	Jul-19	Jun-21	R0302891	\$12,946
Hansen, Neil	PI	Utah State University	Department of Agriculture	Identifying Stacked Conservation Practices that Optimize Water Use in Agriculture	Jul-19	Jun-21	Ro302891	\$5,436
Hopkins, Bryan	PI	US Geological Services	Department of Interior	USGS - Soil Analysis	Sep-20	Sep-25	R0202546	\$1,500
Hopkins, Bryan	Co-PI	US Fish and Wildlife Service	Department of Interior	Natural Resources Support for Natural Resources Program, UTTR, Utah and Nevada	Sep-19	Sep-22	R0202533	\$25,956
Hopkins, Bryan	Co-PI	Utah State University	4R Research Fund	Stacking and Intersecting Nutrient and Irrigation 4R's	Jan-21	Dec-21	R0502317	\$20,069
Hopkins, Bryan	Co-PI	Utah State University	Department of Agriculture	Identifying Stacked Conservation Practices that Optimize Water Use in Agriculture	Jul-19	Jun-21	Ro302891	\$12,565
Hopkins, Bryan	Co-PI	Utah State University	Department of Agriculture	Identifying Stacked Conservation Practices that Optimize Water Use in Agriculture	Jul-19	Jun-21	Ro302891	\$5,276
Jarvis, David	Co-PI	Department of Agriculture		Avena Pangenome	Aug-20	Jul-22	R0152019	\$10,763
Jellen, Eric	PI	Department of Agriculture		Avena Genome Sequence Comparison: Clintland 60	Apr-21	Apr-22	R0152020	\$17,008
Jellen, Eric	PI	Department of Agriculture		Avena Pangenome	Aug-20	Jul-22	R0152019	\$11,089

Jellen, Eric	PI	Department of Agriculture		Small Grains Pangenome Assembly and Annotation	Aug-20	Jul-25	R0152018	\$29,865
Jellen, Eric	PI	General Mills		Project Charter VIII: Genetic Refinement of Moroccan High-Protein Oats for Subsistence Farmers	Apr-21	Apr-22	R0602657	\$7,500
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	Sep-22	R0202529	\$50,000
Larsen, Randy	PI	Utah Reclamation Mitigation and Conservation Commission	Department of Interior	Monitoring bird abundance and movement for Provo river detal restoration project	Feb-17	Jan-22	Ro202489	\$30,000
Larsen, Randy	PI	Utah Reclamation Mitigation and Conservation Commission	Department of Interior	Study of Sage-grouse in Strawberry Valley	Jul-21	Jun-24	Ro202518	\$60,000
Larsen, Randy	Co-PI	US Fish and Wildlife Service	Department of Interior	Natural Resources Support for Natural Resources Program, UTTR, Utah and Nevada	Sep-19	Sep-22	Ro202533	\$25,956
Larsen, Randy	PI	Colorado State University	Department of Defense	Technician Support for the US Army Dugway Proving GroundSummer 2021	May-21	Oct-21	R0302992	\$31,500
Larsen, Randy	Co-PI	Utah Division of Wildlife Resources	US Fish and Wildlife Services	Neonate deer and elk survival on the book cliffs management unit, Utah	Dec-18	Jun-22	R0402331	\$7,718
Madsen, Matthew	PI	Department of Agriculture		Helping Producers Improve Wildlife Habitat with Innovative Seed Coating Technologies	Feb-21	Mar-24	R0202551	\$519,150
Madsen, Matthew	Co-PI	US Fish and Wildlife Service	Department of Interior	Natural Resources Support for Natural Resources Program, UTTR, Utah and Nevada	Sep-19	Sep-22	Ro202533	\$25,956
Madsen, Matthew	PI	University of Colorado, Boulder	National Institutes of Health	From seed to service: Managing the microsite to maximize returns in rangeland restoration and rehabilitation	Nov-20	Nov-24	R0302976	\$200,000
Madsen, Matthew	PI	State of Utah	US Fish and Wildlife Services	Development of Novel Seed Coating Technologies to Improve Wildlife Habitat in the Sagebrush Steppe	Sep-20	Oct-24	Ro302972	\$212,410
Madsen, Matthew	PI	Rio Tinto Kennecott		Improving Vegetation Establishment on Kennecott Mine Waste Rock Dumps and Tailings	Jun-20	Dec-21	Ro6o2635	\$25,435
Madsen, Matthew	PI	Rio Tinto Kennecott		Improving Vegetation Establishment on Kennecott Mine Waste Rock Dumps and Tailings	Jun-20	Dec-21	Ro6o2635	\$20,000
Maughan, Jeff	PI	Department of Agriculture		Application of enhanced sequencing techniques	Jul-20	Jun-22	R0152017	\$83,325
Maughan, Jeff	PI	Department of Agriculture		Application of enhanced sequencing techniques - Acquisition of Goods and Services	Jul-21	Jun-22	R0152022	\$55,000
Maughan, Jeff	Co-PI	Department of Agriculture		Avena Genome Sequence Comparison: Clintland 60	Apr-21	Apr-22	R0152020	\$17,008

Maughan, Jeff	Co-PI	Department of Agriculture		Avena Pangenome	Aug-20	Jul-22	R0152019	\$10,763
Maughan, Jeff	Co-PI	Department of Agriculture		Small Grains Pangenome Assembly and Annotation	Aug-20	Jul-25	R0152018	\$29,865
Maughan, Jeff	Co-PI	General Mills		Project Charter VIII: Genetic Refinement of Moroccan High-Protein Oats for Subsistence Farmers	Apr-21	Apr-22	R0602657	\$7,500
McMillan, Brock	Co-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	Sep-22	R0202529	\$50,000
McMillan, Brock	PI	Utah Division of Wildlife Resources	US Fish and Wildlife Services	Neonate deer and elk survival on the book cliffs management unit, Utah	Dec-18	Jun-22	R0402331	\$7,718
Petersen, Steve	PI	US Fish and Wildlife Service	Department of Interior	Natural Resources Support for Natural Resources Program, UTTR, Utah and Nevada	Sep-19	Sep-22	Ro202533	\$26,019
Petersen, Steve	PI	Nevada Department of Wildlife		Quantifying the influence of feral horses on greater sage- grouse populations in Nevada: a case study using lek count and HMA data	Jul-21	Jun-22	R0470019	\$5,900
Petersen, Steve	Co-PI	Rio Tinto Kennecott		Improving Vegetation Establishment on Kennecott Mine Waste Rock Dumps and Tailings	Jun-20	Dec-21	R0602635	\$25,435
Petersen, Steve	Co-PI	Rio Tinto Kennecott		Improving Vegetation Establishment on Kennecott Mine Waste Rock Dumps and Tailings	Jun-20	Dec-21	R0602635	\$20,000
Smith, Tom	Co-PI	US Fish and Wildlife Service	Department of Interior	Natural Resources Support for Natural Resources Program, UTTR, Utah and Nevada	Sep-19	Sep-22	Ro202533	\$25,956
St Clair, Samuel	PI	USDA U.S. Forest Service		Global Change Interactions in Drylands	Aug-21	Sep-25	R0202560	\$13,000
St Clair, Samuel	PI	Utah Department of Natural Resources		Megafire impacts on terrestrial and aquatic ecosystems and management interventions to protect wildlife habitat and watershed hydrology	Jul-20	Jun-21	R0402356	\$7,350
St Clair, Samuel	PI	Utah Department of Natural Resources		Megafire impacts on terrestrial and aquatic ecosystems and management interventions to protect wildlife habitat and watershed hydrology	Jul-21	Jun-22	R0402371	\$14,493
Stewart, Ryan	PI	Utah Department of Agriculture	Department of Agriculture	Identification and evaluation of high-yielding Pinus edulis native to the Four Corners as pine-nut crops	Nov-20	Sep-23	R0302971	\$25,815

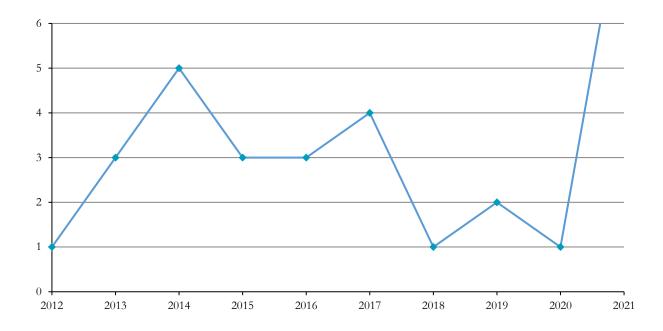
Public Health

Barnes, Michael	Co-PI	Utah County Health Department	State of Utah	A Campus-Community Partnership to Address Utah County Health Disparities: Enhancing Public Health Training through Health Equity Champions	Aug-21	May-23	Ro303017	\$55,500
Chaney, Robbie	Co-PI	Utah County Health Department	State of Utah	A Campus-Community Partnership to Address Utah County Health Disparities: Enhancing Public Health Training through Health Equity Champions	Aug-21	May-23	R0303017	\$55,500
Crandall, Ali	Co-PI	Utah County Health Department	State of Utah	A Campus-Community Partnership to Address Utah County Health Disparities: Enhancing Public Health Training through Health Equity Champions	Aug-21	May-23	R0303017	\$55,500
Hanson, Carl	PI	Utah County Health Department	State of Utah	A Campus-Community Partnership to Address Utah County Health Disparities: Enhancing Public Health Training through Health Equity Champions	Aug-21	May-23	R0303017	\$55,500
Merrill, Ray	Co-PI	National Institutes of Health		Pathophysiology of Voice Disorders due to Combination Inhaled Corticosteroids in Asthma	May-21	Apr-22	R0102086	\$267,383
Redelfs, Alisha	Co-PI	Utah Department of Transportation		Equitable Access to Nutrition in Utah	Oct-21	Sep-22	R0402376	\$23,097
Spruance, Lori	Co-PI	Utah Department of Transportation		Equitable Access to Nutrition in Utah	Oct-21	Sep-22	R0402376	\$23,097

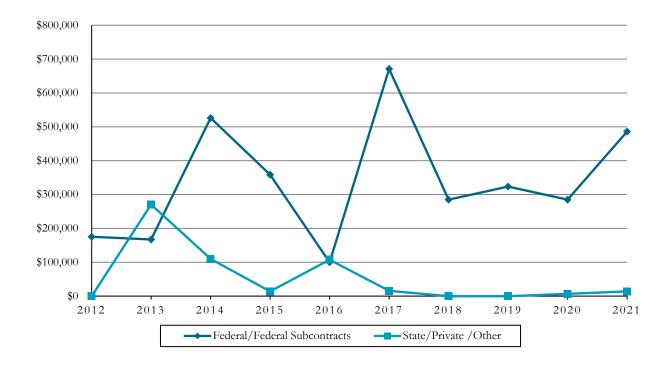


Department	# of Faculty	# of Proposals	# of Awards	Dollars
•	Submitting	Submitted		Awarded
School of Accountancy	0	0	0	\$0
Ballard Center for Social Impact	1	1	1	\$5,000
Experience Design & Management	1	1	0	\$0
Finance & Managerial Economics	0	0	0	\$0
Global Management Center	1	1	2	\$285,000
Information Systems	1	2	1	\$6,878
Management	2	3	2	\$203,221
Marketing & Global Supply Chain	0	0	0	\$0
Romney Institute of Public Management	1	1	0	\$0
TOTALS	7	9	6	\$500,099

Proposal Submissions

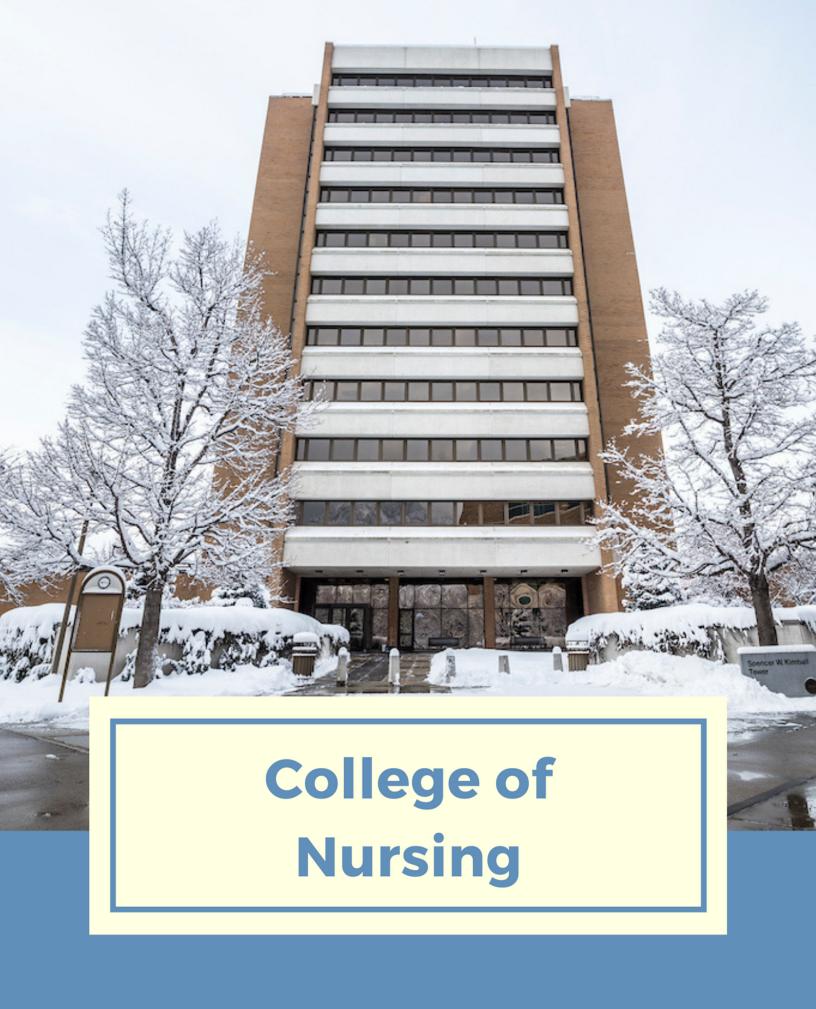


	Grants/Co	ontracts	
Year	Federal/Federal	State/Private	Total
	Subcontracts	/Other	
2012	\$175,321	\$0	\$175,321
2013	\$167,256	\$270,767	\$438,023
2014	\$526,276	\$110,000	\$636,276
2015	\$358,690	\$13,910	\$372,600
2016	\$100,000	\$107,500	\$207,500
2017	\$671,051	\$15,600	\$686,651
2018	\$285,000	\$0	\$285,000
2019	\$323,439	\$0	\$323,439
2020	\$285,000	\$6,750	\$291,750
2021	\$486,139	\$13,960	\$500,099



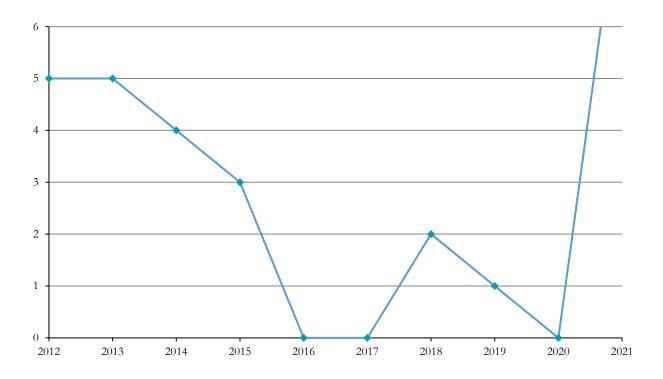
Marriott School of Business 2021 Awards

Researcher	<u>Role</u>	<u>Sponsor</u>	<u>Prime</u> Sponsor	<u>Title</u>	Beg Date	End Date	Account	Amount
Ballard Center	r for Soc	: Impact						
Manwaring, Todd	PI	VentureWell		LacNation	Sep-21	Jun-22	Ro502355	\$5,000
Global Manag	ement C	Center						
Money, Bruce	PI	Department of Education		2018-2022 Center for International Business Education Grant	Oct-18	Sep-22	R0132024	\$142,500
Wood, Jonathon	Co-PI	Department of Education		2018-2022 Center for International Business Education Grant	Oct-18	Sep-22	R0132024	\$142,500
Information S	ystems							
Anderson, Bonnie	PI	Temple University	National Science Foundation	SaTC: CORE: Small: The Blurring of Non-essential Notifications and Critical Security Warnings: Examining the Problem of Generalization in the Brain	Sep-18	Aug-21	R0302878	\$6,878
Management								
Madsen, Peter	PI	Virginia Polytechnic Institute and State University	National Science Foundation	Safety and Learning from Errors and Near Misses in the Human-Automation Interaction of Socio- Technical Infrastructure Systems	Aug-21	Jun-25	R0303033	\$194,261
Rees, McKenzie	PI	Negotiation and Team Resources		Extreme Dependence: Negotiating via the Favor Bank	Aug-20	Aug-21	R0502350	\$8,960



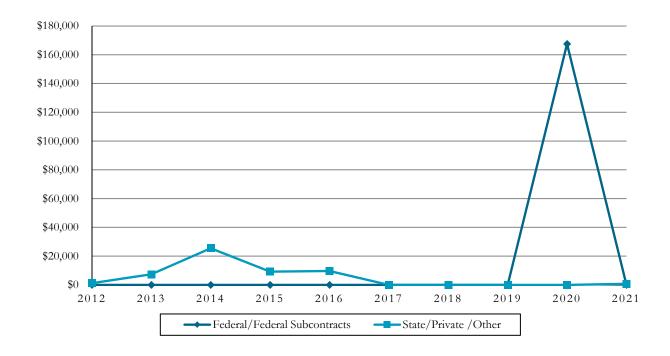
Department		# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Nursing	TOTALS	8	9	1 1	\$750 \$750

Proposal Submissions



College of Nursing Annual Report 2021 | 93

	racts	Grants/Cont	_
Total	State/Private	Federal/Federal	Year
	/Other	Subcontracts	
\$1,200	\$1,200	\$0	2012
\$7,350	\$7,350	\$0	2013
\$25,500	\$25,500	\$0	2014
\$9,200	\$9,200	\$0	2015
\$9,626	\$9,626	\$0	2016
\$0	\$0	\$0	2017
\$0	\$0	\$0	2018
\$0	\$0	\$0	2019
\$167,500	\$0	\$167,500	2020
\$750	\$750	\$0	2021

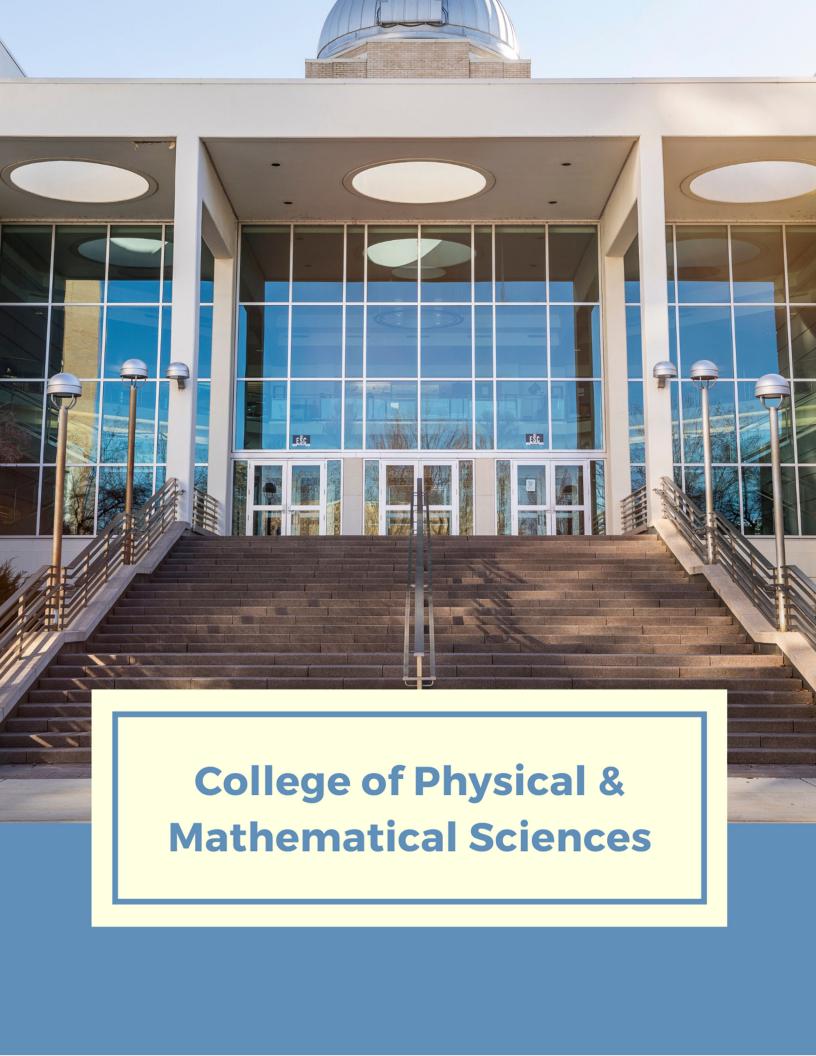


College of Nursing Annual Report 2021 | 94

College of Nursing 2021 Awards

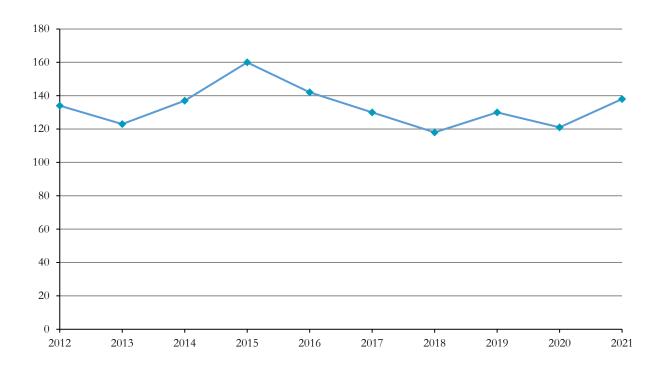
Researcher	<u>Role</u>	<u>Sponsor</u>	<u>Prime</u> <u>Sponsor</u>	<u>Title</u>	Beg Date	End Date	Account	Amount
Himes, Deborah	PI	International Society of Nurses in Genetics		Development of a Credential for Genomic Nursing Education: Delphi Study for Consensus	Aug-21	Aug-22	R0502356	\$750

College of Nursing Annual Report 2021 | 95

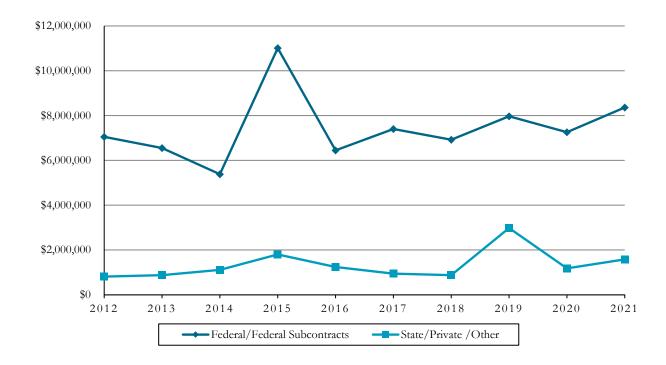


Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Chemistry & Biochemistry	27	55	40	\$4,521,543
Computer Science	6	11	8	\$1,038,190
Geology	5	9	6	\$386,079
Mathematics	14	23	9	\$417,199
Mathematics Education	2	2	0	\$0
Physics & Astronomy	18	36	32	\$2,793,937
Statistics	1	2	6	\$782,800
TOTALS	73	138	101	\$9,939,748

Proposal Submissions



Grants/Con	tracts	
Federal/Federal	State/Private	Total
Subcontracts	/Other	
\$7,049,532	\$813,628	\$7,963,160
\$6,548,760	\$878,540	\$7,408,208
\$5,382,972	\$1,113,596	\$6,496,568
\$11,009,182	\$1,803,190	\$12,812,372
\$6,447,585	\$1,239,899	\$7,687,484
\$7,399,801	\$944,244	\$8,344,045
\$6,919,640	\$878,316	\$7,797,596
\$7,967,960	\$2,983,216	\$10,951,176
\$7,256,305	\$1,180,566	\$8,436,871
\$8,358,774	\$1,580,974	\$9,939,748
	Federal/Federal Subcontracts \$7,049,532 \$6,548,760 \$5,382,972 \$11,009,182 \$6,447,585 \$7,399,801 \$6,919,640 \$7,967,960 \$7,256,305	Subcontracts /Other \$7,049,532 \$813,628 \$6,548,760 \$878,540 \$5,382,972 \$1,113,596 \$11,009,182 \$1,803,190 \$6,447,585 \$1,239,899 \$7,399,801 \$944,244 \$6,919,640 \$878,316 \$7,967,960 \$2,983,216 \$7,256,305 \$1,180,566



College of Physical & **Mathematical Sciences 2020 Awards**

Researcher	<u>Role</u>	<u>Sponsor</u>	<u>Prime</u> <u>Sponsor</u>	<u>Title</u>	Beg Date	End Date	Account	<u>Amount</u>
Chemistry &	Biochen	nistry						
Asplund, Matthew	Co-PI	National Science Foundation		Ambient Level OH Radical Detection Using Broadband Cavity Enhanced Absorption Spectroscopy (BBCEAS) in an Open-Path Configuration	Aug-21	Jul-22	R0112467	\$118,927
Castle, Steven	PI	Eli Lilly and Company		Development of Sustainable and Industrially Viable Peptide Ligation Methods	Aug-21	Aug-23	R0602664	\$264,999
Christensen, Ken	Co-PI	National Institutes of Health		High Density 3D Printed Microfluidics for Cell-Based Biomedical Applications	Sep-20	Aug-23	R0102108	\$14,346
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-22	R0302983	\$64,743
Ess, Dan	PI	National Science Foundation		Collaborative Research: Development and Assessment of Interactive Organic Reaction Animations (iORA) a Smartphone Application Based on Quantum- Mechanical Simulations	Oct-21	Sep-24	R0112470	\$49,523
Ess, Dan	PI	National Science Foundation		REU/RET Site: Chemistry and Biochemistry REU Site to Prepare Students for Graduate School and an Industrial Career	Sep-21	Aug-24	R0112454	\$88,740
Ess, Dan	PI	Department of Energy		Theory of Main-group, P- Block Hydrocarbon Functionalization Reactions	Sep-17	Sep-22	R0202502	\$68,153
Ess, Dan	PI	Rice University	National Institutes of Health	Defining Evolutionary Trajectories: Molecular adaptation to antiobiotic resistance	Apr-21	Mar-22	R0302902	\$32,144
Ess, Dan	PI	Utah State University	National Institutes of Health	Nickel Catalyzed Electrochemical C-C Cross- Coupling Reactions	Aug-21	Jul-22	R0303016	\$42,127
Ess, Dan	PI	National Science Foundation		REU/RET Site: Chemistry and Biochemistry REU Site to Prepare Students for Graduate School and an Industrial Career	Sep-21	Aug-24	R0112453	\$36,750

PI	Chevron Phillips Chemical		Optimization of Homogeneous Alpha Oletfin Catalysts	Dec-13	Dec-21	R0602446	\$160,000
PI	National Science Foundation		Ambient Level OH Radical Detection Using Broadband Cavity Enhanced Absorption Spectroscopy (BBCEAS) in an Open-Path Configuration	Aug-21	Jul-22	R0112467	\$118,927
PI	National Science Foundation		Repurposing Crystalline Materials for Strong Terahertz Generation	Sep-21	Aug-24	R0112465	\$90,567
Co-PI	National Institutes of Health		Biochemical Consequences of Regiospecific Metabolic Bias in the Brain	May-20	Feb-22	R0102103	\$147,563
PI	National Institutes of Health		Fully Automated and Ultra- high Throughput Platform for In-depth Single Cell Proteomics	Sep-20	Aug-22	R0102106	\$165,263
PI	Bristol-Myers Squibb Company		Innovation Grant: Nanoscale Proteomics	Jul-20	Jun-21	R0602603	\$125,000
PI	Biogen		Leveraging NanoPOTS for neuronal proteomics in human motor neuron disease	Jun-21	Dec-21	Ro602595	\$74,827
PI	Fred Hutchinson Cancer Research Center	National Cancer Institute	Clinical translation of a NexGen platform for quantifying protein networks in human biospecimens	Jul-21	Jun-22	R0302954	\$33,476
PI	ThermoFishwer Scientific		Optimization of the Next Generation Analytical Proteomics Platform For Limited Samples (low protein amounts) to Single Cells	Mar-21	Mar-23	R0602655	\$100,000
PI	Restek Corporation		ALD on Materials for Sample Preparation and Chromatography, and SPME	Dec-20	Dec-22	R0602619	\$65,000
PI	Corning Incorporated		Expanding BYU's Tag and Count Methodology to Multicomponent Glass Samples	Dec-21	Apr-22	R0602677	\$35,000
Co-PI	National Science Foundation		Repurposing Crystalline Materials for Strong Terahertz Generation	Sep-21	Aug-24	R0112465	\$90,567
Co-PI	Rio Tinto Kennecott		Improving Vegetation Establishment on Kennecott Mine Waste Rock Dumps and Tailings	Jun-20	Dec-21	Ro602635	\$25,435
Co-PI	Rio Tinto Kennecott		Improving Vegetation Establishment on Kennecott Mine Waste Rock Dumps and Tailings	Jun-20	Dec-21	r0602635	\$20,000
PI	Naval Air Warfare Center Weapons Division	Department of Defense	Determination of the Effects of Thermal and Mechanical Stress on PBX Binder Materials and the HE/Binder Interface	Apr-21	Mar-22	Ro202517	\$149,999
PI	Acushnet Company		Characterization of Damage Accumulation in Titanium with Optical Second Harmonic Generation	Aug-21	Dec-24	R0602667	\$10,995
PI	National Institutes of Health		Biochemical Consequences of Regiospecific Metabolic Bias in the Brain	May-20	Feb-22	R0102103	\$147,563
	PI P	PI Phillips Chemical PI Science Foundation PI Science Foundation PI National Science Foundation Co-PI Institutes of Health PI Squibb Company PI Biogen PI Biogen PI ThermoFishwer Scientific PI Restek Corporation PI Corning Incorporated Co-PI Restek Corporation PI Corning Incorporated Co-PI Rio Tinto Kennecott Co-PI Rio Tinto Kennecott PI Naval Air Warfare Center Weapons Division PI Acushnet Company National Institutes of National Institutes of	PI Phillips Chemical PI Science Foundation PI Science Foundation Co-PI Institutes of Health PI Bristol-Myers Squibb Company PI Biogen PI Fred Hutchinson National Cancer Research Center PI ThermoFishwer Scientific PI Restek Corporation PI Corning Incorporated Co-PI Rio Tinto Kennecott PI Naval Air Warfare Center PI Naval Air Warfare Center PI Acushnet Company National Institutes of Defense National PI National National Defense PI Naval Air Warfare Center PI Naval Air Warfare Center Weapons Division PI Acushnet Company National Institutes of	PI Phillips Chemical National PI Science Foundation PI Institutes of Health PI Institutes of Hutchinson PI Institutes of Hutchinson PI Institute PI Institutes of Hutchinson PI Institute PI Insti	PI Defilips Chemical Catalysts Homogeneous Alpha Oletfin Catalysts Ambient Level OH Radical Detection Using Broadband Cavity Enhanced Absorption Spectroscopy (BBCEAS) in an Open-Path Configuration Spectroscopy (BBCEAS) in the Bataly in Amount of the Next Generation Analytical Path Configuration Spectroscopy (BBCEAS) in the Batalytical Path Configuration Spectroscopy (BBCEAS) in Aproach Spectroscopy (BBCEAS) in Aproach Spectroscopy (BBCEAS) in Aproach Spectroscopy (BBCEAS) in Aproac	Pi Phillips Hömogeneous Alpha Oletfin Dec-13 Dec-21	PI Chemical Homogeneous Alpha Oleffin Dec-13 Dec-21 R0602446 Catalysts Carlalysts Detection Using Broadband Cavity Enhanced Absorption Spectroscopy (BRCEAS) in an Open-Path Configuration Repurposing (Cystalline Materials for Strong Foundation Front Health In the Brain In the Br

Price, John	Co-PI	Clemson University	National Institutes of Health	Development of a multiplexed assay in kinetoplastid parasites to identify probes for glycolysis	Apr-21	Mar-22	Ro302983	\$64,743
Sansom, Rebecca	Co-PI	National Science Foundation		REU/RET Site: Chemistry and Biochemistry REU Site to Prepare Students for Graduate School and an Industrial Career	Sep-21	Aug-24	R0112454	\$86,130
Sansom, Rebecca	PI	National Science Foundation		Developing Three- dimensional Science Teachers in Underserved Rural Settings	Sep-21	Aug-25	R0112461	\$5,440
Sansom, Rebecca	PI	National Science Foundation		Developing Three- dimensional Science Teachers in Underserved Rural Settings	Sep-21	Aug-25	R0112460	\$141,418
Sansom, Rebecca	PI	National Science Foundation		Developing Three- dimensional Science Teachers in Underserved Rural Settings	Sep-21	Aug-25	R0112460	\$5,440
Sansom, Rebecca	PI	National Science Foundation		Developing Three- dimensional Science Teachers in Underserved Rural Settings	Sep-21	Aug-25	R0112461	\$60,928
Sansom, Rebecca	PI	National Science Foundation		Developing Three- dimensional Science Teachers in Underserved Rural Settings	Sep-21	Aug-25	R0112460	\$234,971
Sansom, Rebecca	Co-PI	National Science Foundation		REU/RET Site: Chemistry and Biochemistry REU Site to Prepare Students for Graduate School and an Industrial Career	Sep-21	Aug-24	R0112453	\$36,750
Savage, Paul	PI	Scripps Research Institute	National Institutes of Health	Biology of a-linked glycosylceramides in the immune system	Jan-20	Dec-21	Ro302779	\$75,000
Savage, Paul	PI	Scripps Research Institute	National Institutes of Health	Development of the Next Generation of Conjugate Vaccines	Jul-20	Jun-22	R0302803	\$165,000
Savage, Paul	PI	Scripps Research Institute	National Institutes of Health	Mechanistic studies of combination adjuvants to target B cells in vaccines	Apr-21	Mar-22	R0302994	\$87,840
Savage, Paul	PI	Vanderbilt University Medical Center	National Institutes of Health	Molecular Basis of CD1D and Natural Killer T Cell Function	Aug-20	Jul-22	Ro302883	\$36,893
Savage, Paul	PI	Georgia Institute of Technology	National Institutes of Health	Strategies for generating high affinity antibodies against Gram-negative bacteria	Mar-20	Feb-21	R0302900	\$78,000
Savage, Paul	PI	N8 Medical		Collection Account for Royalty Payments	May-21	Dec-21	R0802005	\$12,500
Savage, Paul	PI	N8 Medical		Collection Account for Royalty Payments	May-21	Dec-21	Ro802005	\$12,500
Savage, Paul	PI	N8 Medical		Collection Account for Royalty Payments	May-21	Dec-21	Ro8o2oo5	\$12,500
Savage, Paul	PI	N8 Medical		Collection Account for Royalty Payments	May-21	Dec-21	R0802005	\$12,500

Stowers, Kara	Co-PI	National Science Foundation		REU/RET Site: Chemistry and Biochemistry REU Site to Prepare Students for Graduate School and an Industrial Career	Sep-21	Aug-24	R0112454	\$86,130
Stowers, Kara	Co-PI	National Science Foundation		REU/RET Site: Chemistry and Biochemistry REU Site to Prepare Students for Graduate School and an Industrial Career	Sep-21	Aug-24	R0112453	\$36,750
Van Ry, Pam	PI	University of Washington		Studies of AvB6 integrin binders in rodent models of idiopathic pulmonary fibrosis	Jan-20	Jul-21	Ro8o2o43	\$9,660
Watt, Richard	PI	Rocard Laboratories		Development of Saliva Lateral Flow Diagnostic Tests for Covid-19: Applications for Early Identification and Treatment of High Risk Covid-19 Patients that Include Diabetes, and Hypertertension.	Apr-21	Dec-21	R0602658	\$22,500
Willardson, Barry	PI	National Institutes of Health		Structural Basis Chaperone	Sep-20	Jun-21	R0102110	\$410,321
Willardson, Barry	PI	National Institutes of Health		Structural Basis Chaperone	Jul-21	Jun-22	R0102110	\$385,887
Woolley, Adam	Co-PI	National Institutes of Health		High Density 3D Printed Microfluidics for Cell-Based Biomedical Applications	Sep-20	Aug-23	R0102108	\$14,346
Woolley, Adam	PI	National Institutes of Health		3D-Printed Integrated Microfluidic Devices for Preterm Birth Biomarker Analysis	Jul-21	Jun-22	R0102090	\$86,765
Computer Sci	ience							
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-22	Ro302806	\$178,747
Deccio, Casey	PI	Comcast Corporation		Assessing the Accessibility and Vulnerability of DNS Resolvers	Mar-21	Dec-25	R0602654	\$40,110
Fulda, Nancy	Co-PI	National Science Foundation		EAGER: Harnessing Accurate Bias in Large-Scale Language Models	Sep-21	Feb-23	R0112468	\$24,292
Fulda, Nancy	PI	Latitude		Enchanted Forests Don't Have Supermarkets: Preserving Narrative Coherence in AI-Generated Interactive Fiction	Aug-21	Aug-22	R0602644	\$15,003
Goodrich, Michael	PI	Office of Naval Research	Department of Defense	Advancing Managed Bio- Inspired Collectives: Using an Analytical Model to Design and Evaluate Interfaces	Feb-21	Feb-22	Ro202549	\$345,393
Goodrich, Michael	PI	Oregon State University	Office of Naval Research	A Formal Framework for Developing Resilient Teams of Heterogeneous Autonomous Agents	Aug-20	Aug-22	Ro302835	\$67,000
Goodrich, Michael	Co-PI	Carnegie Mellon University	Office of Naval Research	Success: Self-Assessment and Understanding of Competence and Conditions to Ensure System Success	Jun-18	May-22	R0302806	\$178,747

Holladay, Seth	PI	Epic Games		Educational Film Pipelines using Unreal	Mar-21	Feb-23	R0602651	\$50,000
Snell, Quinn	Co-PI	Sandia National Laboratories	Department of Energy	Sandia cybersecurity camp sponsorship	Jul-21	Sep-21	R0303015	\$9,900
Wingate, David	PI	National Science Foundation		CAREER: Blending Deep RL and Probablistic Programming	Mar-17	Feb-22	R0112338	\$104,706
Wingate, David	PI	National Science Foundation		EAGER: Harnessing Accurate Bias in Large-Scale Language Models	Sep-21	Feb-23	R0112468	\$24,292
Geology								
Bickmore, Barry	Co-PI	US Army Corps of Engineers	Department of Defense	Improving Soil Classification ANalogs (I-SCAN)	Sep-21	Mar-23	R0202563	\$69,577
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-22	R0112444	\$72,145
Carling, Greg	Co-PI	US Army Corps of Engineers	Department of Defense	Improving Soil Classification ANalogs (I-SCAN)	Sep-21	Mar-23	R0202563	\$69,577
Hudson, Sam	PI	Zanskar Geothermal & Minerals		Basin-Centered Sedimentary Geothermal Systems of the Basin and Range: Pilot Study	Jan-22	Aug-22	R0602673	\$19,500
LeMonte, Josh	PI	US Army Corps of Engineers	Department of Defense	Improving Soil Classification ANalogs (I-SCAN)	Sep-21	Mar-23	R0202563	\$71,685
Radebaugh, Jani	PI	Johns Hopkins University	National Aeronautics and Space Administration	Dragonfly Phase B Bridge	Sep-19	Dec-21	Ro302875	\$74,145
Radebaugh, Jani	PI	Johns Hopkins University	National Aeronautics and Space Administration	The Interior Life of Dunes	Jun-21	Oct-21	R0303004	\$1,950
Ritter, Scott	PI	University of Utah	Department of Energy	Reservoir Characterization and Petrology of the Cane Creek B Interval (Pennsylvanian), Paradox Basin, Utah	Oct-19	Mar-22	R0302901	\$7,500
Mathematics								
Allen, Mark	PI	Simons Foundation		Nonlocal Equations and Free Boundary Problems	Sep-19	Aug-24	Ro502315	\$8,400
Andersen, Nickolas	PI	Simons Foundation		Arithmetic applications of automorphic forms	Sep-21	Aug-22	R0502351	\$8,400
Boyd, Zachary	PI	National Science Foundation		LEAPS-MPS: Structure and dynamics of global supply chain networks	Jan-22	Dec-23	R0112471	\$249,999
Fisher, Todd	PI	Simons Foundation		Topological Pressure and Equilibrium States for Smooth Dynamic Systems	Sep-18	Aug-23	Ro502274	\$8,400
	Co-PI	Tula Health,		TULA health - Non-Invasive			R0602659	\$100,000

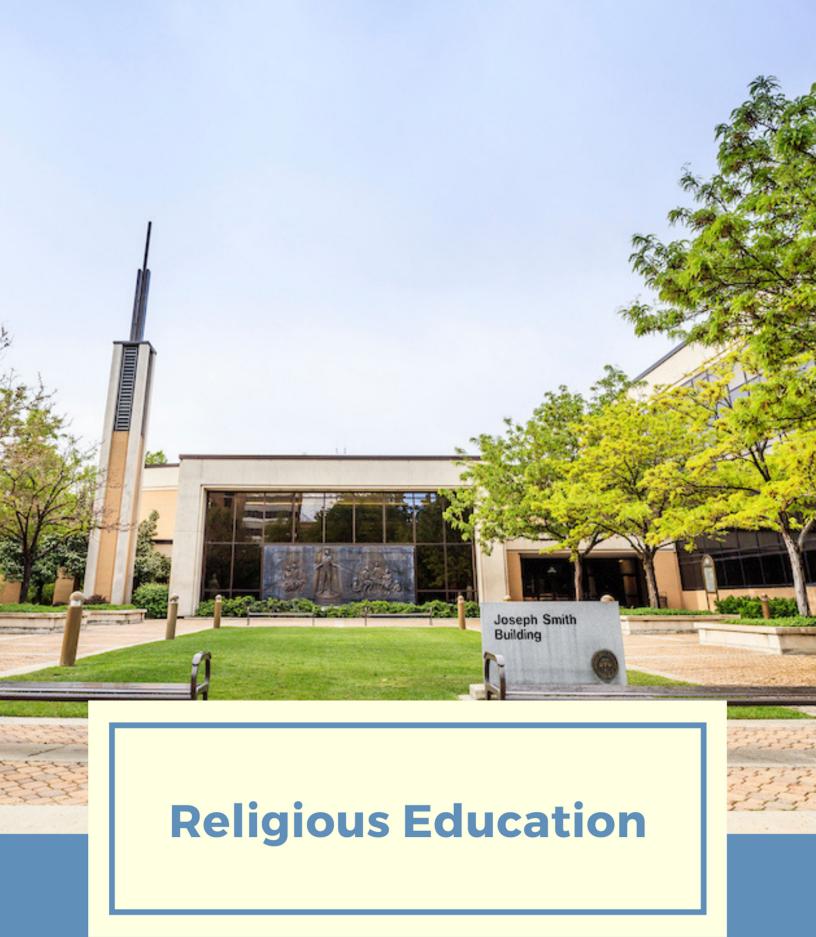
Gee, Kent	PI	& Technologies Corp	Department of Defense	reflections in impulse noise data	Mar-21	Mar-22	Ro302978	\$44,858
Gee, Kent	PI	Office of Naval Research		Connecting analyses of installed tactical jet engine noise with simulated and laboratory-scale data. Investigating impact of	Dec-20	Dec-23	R0202547	\$223,738
Frandsen, Benjamin	PI	Department of Energy		Probing Short-Range Structure and Magnetism In Next-Generation Energy Conversion Materials	Sep-21	Aug-22	R0202542	\$145,347
Davis, Robert	PI	Tula Health, Inc		TULA health - Non-Invasive health sensing	Apr-21	Mar-22	R0602659	\$100,000
Colton, John	Co-PI	National Science Foundation		REU-site: Physics Research at Brigham Young University	Mar-21	Feb-24	R0112457	\$140,244
Colton, John	Co-PI	National Science Foundation		REU-site: Physics Research at Brigham Young University	Mar-21	Feb-24	R0112456	\$45,049
Boizelle, Benjamin	PI	National Radio Astronomy Observatory (Associated Universitites, Inc.)	National Science Foundation	An ALMA Archive Molecular Gas Census of Early-type Galaxies	Aug-21	Jul-23	R0303009	\$10,000
Boizelle, Benjamin	PI	Space Telescope Science Institute	National Aeronautics and Space Administration	Precision Measurement of Black Hole Masses in Early- Type Galaxies from the ALMA Archive	Apr-21	Mar-23	Ro302987	\$18,278
Bergeson, Scott	PI	National Science Foundation		Collaborative Research Proposal: Ultracold Neutral Plasmas as High Energy Density Plasma Simulators	Jun-20	May-23	R0112438	\$124,740
Anderson, Brian	Co-PI	Michigan State	National Institutes of Health	Protecting Teacher's Voices: Investigating Risk Factors, Conducting Analysis	May-21	Apr-22	Ro302986	\$74,809
Anderson, Brian	PI	Los Alamos National Laboratory	Department of Energy	Source Signature Encryption and Super Resolution Imaging using Near Field Scattering	Jun-19	Dec-22	R0302863	\$105,470
Allred, David	PI	Jet Propulsion Laboratory	National Aeronautics and Space Administration	Development of tools and mechanisms useful in researching and mitigating particulate contamination on Spacecraft	Jan-22	Apr-22	R0303037	\$16,000
Physics & As	tronomy	1						
Whitehead, Jared	PI	Simons Foundation		Analysis and Computation of Geophysical Fluid Dynamics	Sep-18	Aug-23	R0502277	\$8,400
Webb, Ben	PI	Simons Foundation		Interplay of Structure and Dynamics in Real-World Systems	Sep-20	Aug-25	R0502330	\$8,400
Priddis, Nathan	PI	Simons Foundation		Mirror Symmetry and the LG/CY Correspondence	Sep-18	Aug-23	R0502276	\$8,400
Lu, Kening	PI	Simons Foundation		Complicated Dynamics for Infinite Dimensional Dynamical Systems	Sep-20	Aug-25	R0502329	\$8,400
Kent, Curt	PI	Simons Foundation		Topology of Coarse Geometry Structures	Sep-18	Aug-23	R0502275	\$8,400

Gee, Kent	PI	Los Alamos National Laboratory	Department of Energy	MEASUREMENTS OF LARGE-SCALE C4 DETONATIONS AT THE NEVADA NATIONAL SECURITY SITE	Dec-20	Sep-21	R0302963	\$29,406
Gee, Kent	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-22	Ro302995	\$5,025
Gee, Kent	Co-PI	Blue Ridge Research and Consulting	Army	Acoustic Background Noise Analysis for Mission Planning and Community Noise	Dec-18	Sep-22	Ro302825	\$10,000
Gee, Kent	Co-PI	Blue Ridge Research and Consulting	Army	Acoustic Background Noise Analysis for Mission Planning and Community Noise	Dec-18	Sep-22	R0302825	\$9,951
Hart, Grant	Co-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-22	Ro302995	\$5,025
Hintz, Eric	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-22	Ro302998	\$2,500
Hirschmann, Eric	Co-PI	National Aeronautics and Space Administration		Bianary black hole waveforms for LISA using numerical relativity	Jan-20	Jan-23	R0162042	\$72,351
Neilsen, David	PI	National Aeronautics and Space Administration		Bianary black hole waveforms for LISA using numerical relativity	Jan-20	Jan-23	R0162042	\$72,351
Neilsen, Traci	PI	Office of Naval Research	Department of Defense	Informational Geometry for Optimal Design of Geoacoustic Inversions	Jul-21	Jul-24	Ro202555	\$57,500
Neilsen, Traci	Co-PI	Office of Naval Research	Department of Defense	A re-configurable testbed for autonomous heterogeneous marine mapping, sensing, and search	Mar-21	Mar-22	Ro202550	\$104,631
Neilsen, Traci	Co-PI	Office of Naval Research	Department of Defense	A re-configurable testbed for autonomous heterogeneous marine mapping, sensing, and search	Mar-21	Mar-22	Ro202550	\$104,631
Neilsen, Traci	PI	KSA, LLC	Department of Defense	Through the Sensor Statistical Inference Module (SIM) for Assessing Predictions made on SSNs	Dec-18	Apr-22	Ro302848	\$25,000
Peatross, Justin	PI	National Science Foundation		Polarization Resolved Single- Photon Measurements of Nonlinear Thompson Scattering	Jul-17	Jun-22	R0112356	\$17,550
Ragozzine, Darin	PI	Arizona State University	National Aeronautics and Space Administration	Haumea: Internal Structure and Collisional Family	Oct-18	Oct-21	R0302844	\$86,931
Ragozzine, Darin	PI	Space Telescope Science Institute	National Aeronautics and Space Administration	Toward a more complete understanding of Haumea's family tree	Dec-20	Nov-23	R0302962	\$14,900

Ragozzine, Darin	PI	Large Synoptice Survey Telescope Corporation	National Aeronautics and Space Administration	Leveraging Solar System Science with Advanced Dynamical Characterization	Aug-21	Dec-21	R0502352	\$5,000
Sandberg, Richard	PI	Department of Energy	Administration	Tracking intergranular strain dynamics with near-atomic scale coherent x-ray imaging at next generation light sources	Aug-21	Jul-22	Ro202562	\$180,401
Sandberg, Richard	PI	SLAC National Accelerator Laboratory	Department of Energy	Development of high resolution, single shot, dynamic x-ray imaging	Feb-20	Sep-24	Ro302895	\$40,000
Sandberg, Richard	PI	Los Alamos National Laboratory	Department of Energy	Development of rapid, three dimensional, nanometer scale x-ray imaging	Sep-20	Aug-21	R0302942	\$32,550
Sommerfeldt, Scott	PI	Caterpillar		Acoustic Modeling of Resonators and Development of a Multi- Driver Volume Velocity Source	Jan-21	Dec-21	R0602437	\$60,750
Stephens, Denise	Co-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-22	Ro302998	\$2,500
Transtrum, Mark	Co-PI	Office of Naval Research	Department of Defense	Informational Geometry for Optimal Design of Geoacoustic Inversions	Jul-21	Jul-24	Ro202555	\$57,500
Transtrum, Mark	Co-PI	National Institutes of Health		Biochemical Consequences of Regiospecific Metabolic Bias in the Brain	May-20	Feb-22	R0102103	\$147,563
Transtrum, Mark	PI	National Science Foundation		Collaborative Research: Reliable Materials Simulation based on the Knowledgebase of Interatomic Models	Oct-18	Sep-22	R0112397	\$124,507
Transtrum, Mark	PI	National Science Foundation		NSF CAREER- Connecting Mathematical Models Across Scales	Apr-18	Mar-23	R0112430	\$22,500
Transtrum, Mark	Co-PI	KSA, LLC	Department of Defense	Through the Sensor Statistical Inference Module (SIM) for Assessing Predictions made on SSNs	Dec-18	Apr-22	Ro302848	\$25,000
Transtrum, Mark	PI	Blue Ridge Research and Consulting	Army	Acoustic Background Noise Analysis for Mission Planning and Community Noise	Dec-18	Sep-22	Ro302825	\$10,000
Transtrum, Mark	PI	Blue Ridge Research and Consulting	Army	Acoustic Background Noise Analysis for Mission Planning and Community Noise	Dec-18	Sep-22	R0302825	\$9,951
Transtrum, Mark	PI	Cornell University	National Science Foundation	Center for Bright Beams	Oct-16	Sep-22	R0302718	\$105,688
Van Huele, Jean-Francois	PI	National Science Foundation		REU-site: Physics Research at Brigham Young University	Mar-21	Feb-24	R0112456	\$45,049
Van Huele, Jean-Francois	PI	National Science Foundation		REU-site: Physics Research at Brigham Young University	Mar-21	Feb-24	R0112457	\$140,244
Van Huele, Jean-Francois	PI	Arizona State University	National Science Foundation	WAESO Quantum Thermodynamics	May-21	Sep-21	Ro302993	\$450

Van Huele, Jean-Francois	PI	Arizona State University	National Science Foundation	WAESO Quantum Thermodynamics II	Aug-21	Jun-22	R0303020	\$450
Vanfleet, Richard	Co-PI	Tula Health, Inc		TULA health - Non-Invasive health sensing	Apr-21	Mar-22	R0602659	\$100,000
Ware, Michael	Co-PI	National Science Foundation		Polarization Resolved Single- Photon Measurements of Nonlinear Thompson Scattering	Jul-17	Jun-22	R0112356	\$17,550
Statistics								
Christensen, William	Co-PI	University of Utah	National Aeronautics and Space Administration	Bayesian quantification of Antarctic surface mass balance	May-16	May-20	Ro302675	\$2,500
Christensen, William	Co-PI	University of Utah	National Aeronautics and Space Administration	Precipitation & Glacier Mass Balance in High Mountain Asia Over the Common Era	Aug-16	Apr-21	Ro302695	\$2,500
Heaton, Matt	PI	National Science Foundation		Point Process Models for Traffic Risk Analysis and Crash Prevention	Aug-21	Jul-24	R0112446	\$49,985
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-22	Ro302960	\$40,641
Heaton, Matt	Co-PI	Utah State University	Department of Agriculture	Identifying Stacked Conservation Practices that Optimize Water Use in Agriculture	Jul-19	Jun-21	R0302891	\$12,565
Heaton, Matt	Co-PI	Utah State University	Department of Agriculture	Identifying Stacked Conservation Practices that Optimize Water Use in Agriculture	Jul-19	Jun-21	R0302891	\$5,276
Peterson, Alex	PI	National Science Foundation		CRCNS US-French Research Proposal: Advanced Spatiotemporal Statistical Models for Quantification and Estimation of Functional Connectivity: Q-FunC	Aug-21	Dec-23	R0112463	\$371,132
Peterson, Alex	PI	National Science Foundation		Statistical Modelling of Multivariate Functional and Distributional Data	Jun-21	Jun-22	R0112458	\$8,383
Reese, Shane	PI	University of Utah	National Aeronautics and Space Administration	Bayesian quantification of Antarctic surface mass balance	May-16	May-20	Ro302675	\$2,500
Reese, Shane	PI	University of Utah	National Aeronautics and Space Administration	Precipitation & Glacier Mass Balance in High Mountain Asia Over the Common Era	Aug-16	Apr-21	R0302960	\$2,500
Reese, Shane	PI	University of Utah	National Aeronautics and Space Administration	Historical and Future Precipitation and Glacier Changes in High Mountain Asia	Aug-20	Aug-22	R0302960	\$40,641
Tolley, Dennis	Co-PI	National Institutes of Health		3D-Printed Integrated Microfluidic Devices for Preterm Birth Biomarker Analysis	Jul-21	Jun-22	R0102090	\$84,213
Warr, Richard	Co-PI	National Science Foundation		Point Process Models for Traffic Risk Analysis and Crash Prevention	Aug-21	Jul-24	R0112446	\$49,985
Warr, Richard	Co-PI	Utah Department of Transportation		BYU SAFETY MODELING FY21	Apr-21	Dec-22	R0402367	\$59,994

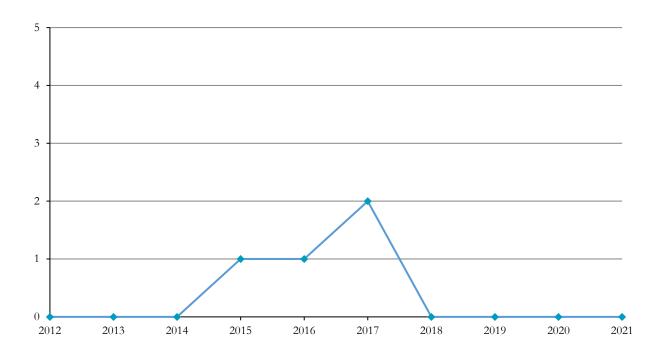
National Point Process Models for Science Foundation Traffic Risk Analysis and Crash Prevention White, Philip Co-PI Aug-21 Jul-24 R0112446 \$49,985



Summary by Departments

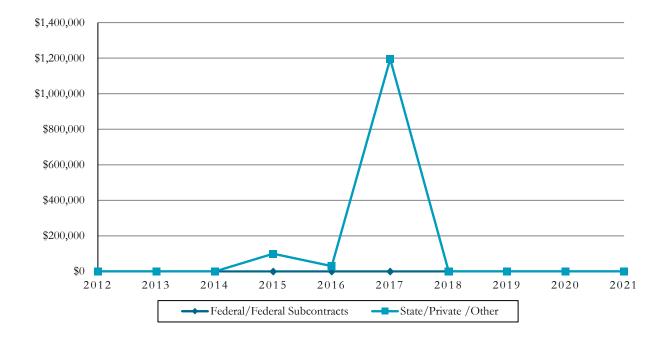
Department	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Ancient Scripture	0	0	0	\$0
Church History & Doctrine	0	0	0	\$0
TOTALS	0	0	0	\$0

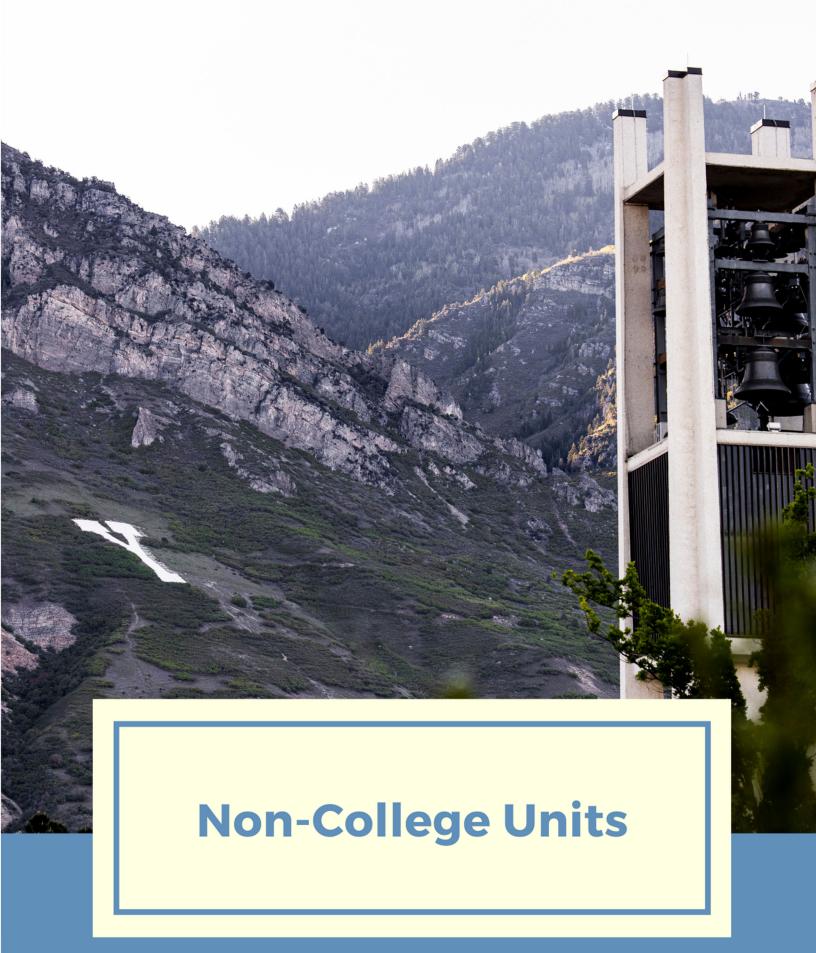
Proposal Submissions



Awards by Sources

	Grants/Co		
Year	Federal/Federal	State/Private	Total
	Subcontracts	/Other	
2012	\$0	\$0	\$0
2013	\$0	\$0	\$0
2014	\$0	\$0	\$0
2015	\$0	\$100,000	\$100,000
2016	\$0	\$30,000	\$30,000
2017	\$0	\$1,194,811	\$1,194,811
2018	\$0	\$0	\$0
2019	\$0	\$0	\$0
2020	\$0	\$0	\$0
2021	\$0	\$0	\$0

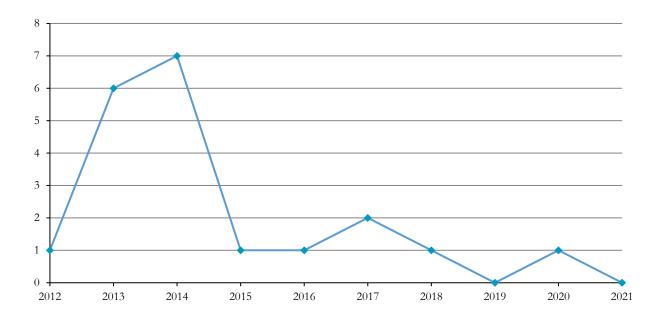




Summary by Units

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

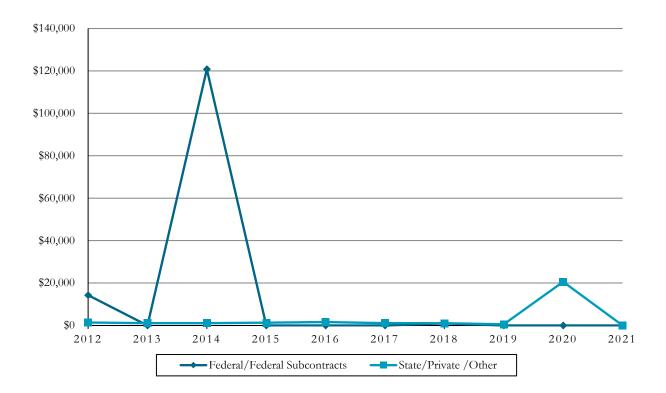
Proposal Submissions



Non-College Units Annual Report 2021 | 117

Awards by Sources

	Grants/Co	ontracts	
Year	Federal/Federal	State/Private	Total
	Subcontracts	/Other	
2012	\$14,281	\$1,380	\$15,661
2013	\$0	\$1,047	\$1,047
2014	\$120,816	\$1,066	\$121,816
2015	\$0	\$1,300	\$1,300
2016	\$0	\$1,588	\$1,588
2017	\$0	\$1,045	\$1,045
2018	\$935	\$1,027	\$1,962
2019	\$0	\$550	\$550
2020	\$0	\$20,572	\$20,572
2021	\$0	\$0	\$0



Non-College Units



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 2021 through December 2021 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 2021, the IACUC accomplished the following:

- 12 IACUC meetings
- processed over 200 submissions, including 21 new protocols, 15 study amendments, 90 personnel amendments, and 74+ other administrative actions
- developed a new protocol application
- completed semiannual facility inspections and program evaluations
- began development of a PAM process
- maintained 99 active IACUC protocols

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 2021, the IBC accomplished the following:

- 7 IBC meetings
- processed over 31 submissions, including 9 new protocols, 1 study amendment, 5 personnel amendments, and 16+ other administrative actions
- passed annual CDC inspection (2021 was the 3-year registration renewal inspection)
- maintained 56 active IBC protocols

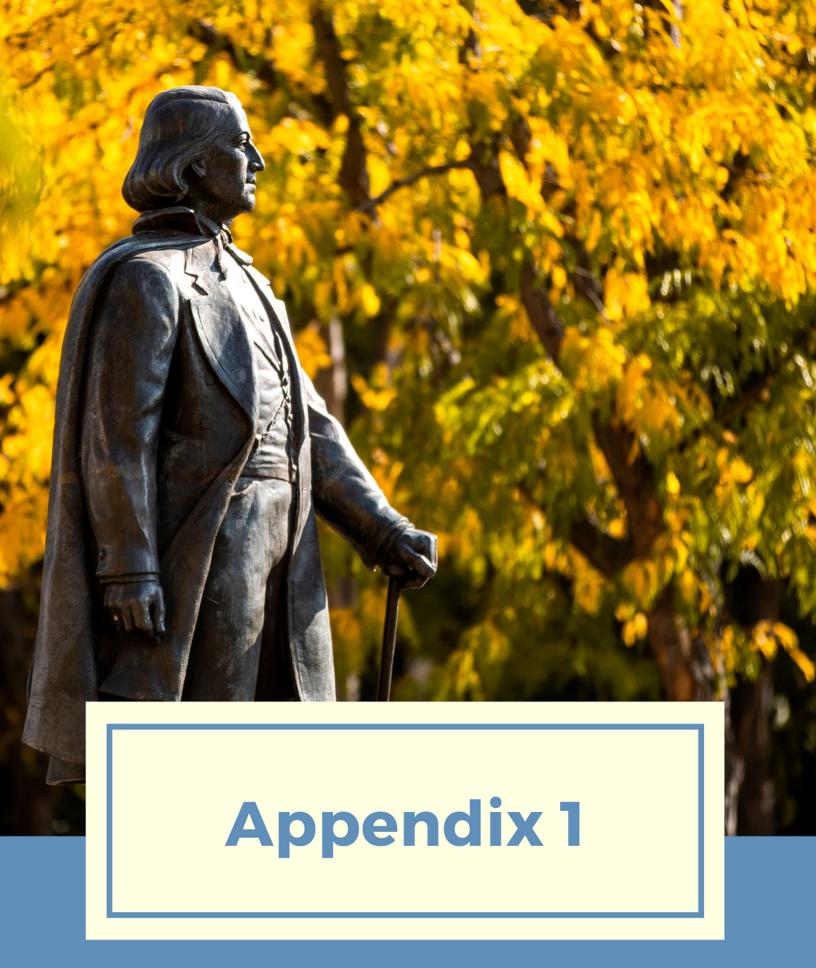
The Human Research Protections Program (HRPP)/Institutional Review Board (IRB)

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

The HRPP/IRB completed its second year using the online submission system, iRIS. The system enables online tracking, review, and post-approval compliance activities, it has also helped to achieve area goals, which are to be: Transparent, Efficient, Accountable, and Modern (TEAM). The system has created new ways HRPP tracks human subject research activities. The description below reflects new, more accurate ways to track human subject research activities that are not limited to new study submissions. Notably, IRB activity now tracks each instance a study is handled in the office.

The table below includes the number of human research study transactions in 2021. The trend in research activity has remained constant for the last 5 years, however, the number of total new submissions decreased in 2021 for two reasons: 1) the change in federal regulations in 2019 which allow for exempt studies and many expedited studies to continue without an expiration date, reducing the numbers of new applications and continuing review submissions; 2) the pandemic caused many investigators to halt active research to incorporate safety protocols in their studies or to wait for health trends in the community and travel restrictions abroad. The IRB experienced an increase of modification requests.

2021 Total Number of Applications					
Total Number of New Applications Submitted	397				
Number of Applications Approved	332				
Number of Modifications to Approved Studies	411				
Continuing Reviews	139				
Number of Submission Corrections	1018				
Adverse Event Reports	3				
Total Number of Protocol Transactions	1,968				



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

Personnel

Director: Gene Larson

Associate Director, Sponsored Projects: Debbie Silversmith

Research Administrator: Susie Quartey Research Administrator: Maren Redd

Associate Director, HRPP: Sandee Aina IRB Administrator: Wayne Larsen IRB Secretary: Stephanie Coyne IRB Secretary: Emily Gneiting

Associate Director, IACUC/IBC: Jason Jay

IACUC/IBC Coordinator: Regina McCarthy

University Veterinarian & Associate Director, LARC: Sandy Garrett

LARC Manager: Tarra Anderson

Assistant LARC Manager: Lindsey Edwards

Application Systems Manager: TBD

1) Policy Review and Development

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

2) Opportunity Coordination

- Represent the university's research program to other research organizations, funding agencies, and other universities.
- Monitor requests for proposals and deadlines.
- Work with Research Development to disseminate information on funding opportunities to faculty.
- Maintain PIVOT subscription to assist faculty in research funding searches.

3) Proposal Preparation and Submission

- Provide support for faculty in using Kuali.
- Coordinate the preparation of large, inter-collegiate, and inter-institutional research proposals.
- Assist with proposal budgets and proposal processing for signatures.
- Assist in developing process/software for budgets and forms.
- Assist in creating, reviewing, approving, and submitting proposals in Kuali and to sponsors.

4) Negotiating and Interacting with Sponsors

- Negotiate and manage grants and contracts.
- Interface with sponsoring agencies to maintain awareness of research funding trends.

5) Compliance with Federal Regulations and Other Requirements

- Monitor government regulations pertaining to federal grants and contracts.
- Work with the Inventory Office to manage government property to assure compliance with federal regulations.
- Assure compliance with reporting requirements and manage closeout documentation.
- Oversee three compliance committees and assist them through secretarial support for meetings, correspondence, and proposal approval.

6) Negotiating and Interfacing with Subcontractors and Independent Contractors/Consultants

- Negotiate terms of agreements or subcontracts.
- Monitor agency regulations and BYU policy and procedures for stipulations concerning subcontracts and/or independent consultants/contractors.
- Prepare contracts, amendments, payment documents, and initiate processing through the university.
- Administer contractual terms between prime contractor (BYU) and subcontractors and or/consultants.

7) Project and Account Management (Post-Award)

- Control assignment of account numbers and coordinate activation with GCA.
- Monitor research accounts in conjunction with GCA to assure compliance with contract requirements, government regulations, and BYU policy.
- Assist GCA with audits of project accounts.
- Assure compliance with reporting requirements and manage closeout documents.
- Act as a liaison between researchers and sponsors to facilitate management of projects.
- Coordinate re-budget requests with GCA, PI, and Sponsors.

8) Financial Management

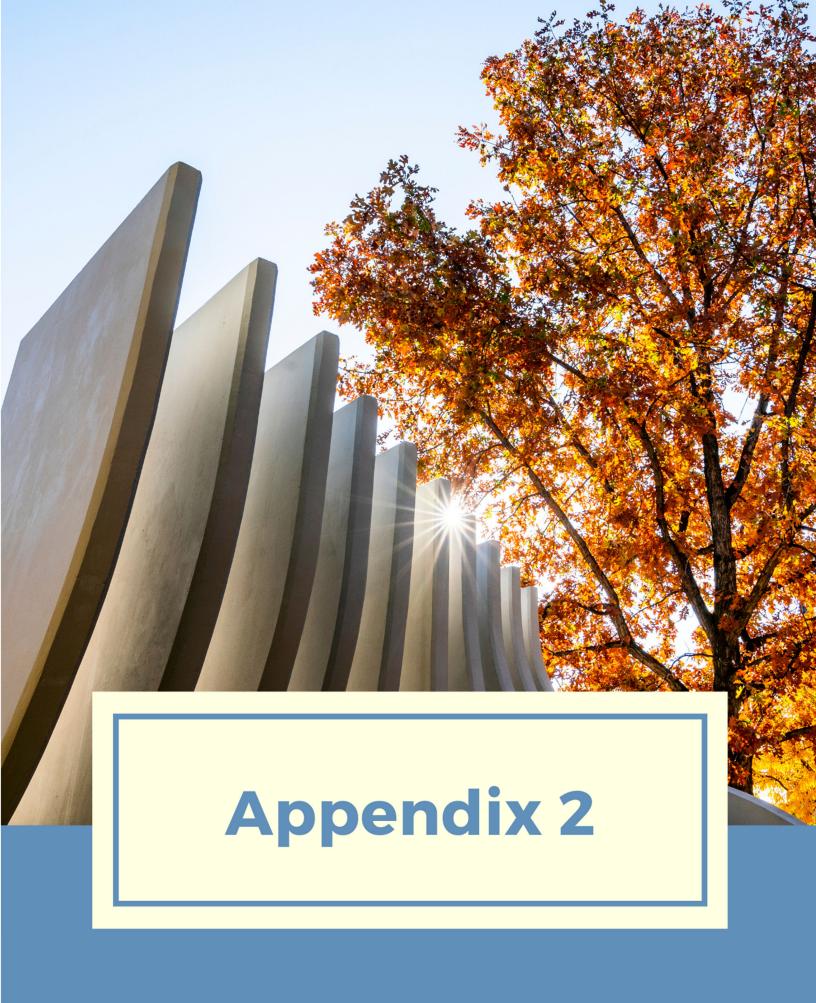
- ♦ Document cost sharing processes and approvals.
- Prepare and publish yearly financial reports in RAO Annual Report.
- Monthly financial reports available on demand in Kuali.
- Process incoming funds from sponsors.
- Monitor university compliance with appropriate federal and state financial regulations.
- 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

- Host Annual Sponsored Research Luncheon and present Sponsored Research Award.
- ♦ Assist in budget management and accounting of RAO accounts.
- Compile an annual report of university research activities.
- Monitor and compile Full-time Equivalency reports.
- ♦ Assist in preparation of reports, NCE, and 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.



Compliance Obligations (As Per Federal Statute or Regulation)

The following pages list those areas where formal compliance to federal statutes and regulations is required to participate in federal funding. The full list is included to illustrate the range of possible certification or other compliance. Specific grants and contracts may involve only a subset of these compliance obligations.

Regulatory Framework

Uniform Guidance

Federal Acquisition Regulations (FAR)

Defense Federal Acquisition Regulations (DFAR)

Department of Energy Acquisition Regulations (DEAR)

USAID Acquisition Regulations (AIDAR)

HIPPA

FFATA

ITAR/EAR

RCR - NSF

E-Verify

The Coordinated Review Process-Executive Order 12372

Rights to Inventions Made by Nonprofit Organizations and Small Business Firms

Compliance Information for Specific Circumstances

Facilities Management

Historic Preservation

Paperwork Reduction Act

Individual Rights

Antidiscrimination

Civil Rights Act of 1964—Title VI

Employment of the Handicapped-Rehabilitation Act of 1973

Americans with Disabilities Act

Title IX—Sex Discrimination

Age Discrimination

Equal Employment Opportunity

Affirmative Action for Special Disabled and Vietnam Era Veterans

Utilization of Women-Owned Small Business

Utilization of Labor Surplus Area Concerns

Utilization of Small and Small Disadvantaged Business Concerns

Privacy

Privacy Act of 1974

Freedom of Information Act

Confidentiality of Patient Records

Protection Issues

Environmental Protection

Clean Air Act and Clean Water Act

Hazardous Materials

Protection of Living Organisms

Human Subjects Compliance

Use of Animals in Research

Marine Mammal Act

Research Involving Recombinant DNA Molecules

Employee Directives

Drug-free Workplace

Drug-free Work Force

Drug-free Schools and Campuses Act

Lobbying

Occupation Safety and Health

David Bacon Act

Walsh-Healey Public Contracts Act

Service Contract Act

Contract Work Hours and Safety Standards Act of 1962

Fraud, Waste, and Abuse

Misconduct in Science

Procurement Integrity

Debarment and Suspension

Covenant Against Contingent Fees

Anti-Kickback Act of 1986

Officials Not to Benefit

Specific Administrative Requirements

General Requirements

Buy American Act

Fly American Act

Competition in Contracting

Export Administration Act and Arms Export Control Act

Insurance-Immunity from Tort Liability

Prompt Payment

Non-delinquency of Federal Debt

Certificate of Current Cost and Pricing Data

Acknowledgment of Federal Grant Support (Stevens Amendment)