

Central Washington University
Annual Report
of
External Grant & Contract Activities
for
July 1, 2016–June 30, 2017

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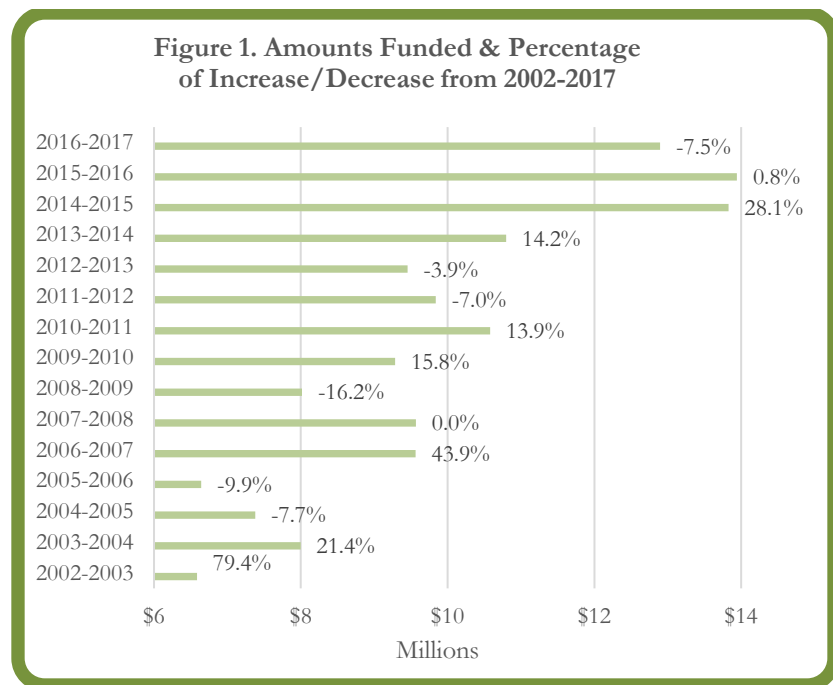
School of Graduate Studies & Research

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August 2017

Summary of External Report of Grants and Contracts Activity for July 1, 2016–June 30, 2017

Grants funded during this fiscal year totaled \$12,896,191. Between July 1, 2016 and June 30, 2017, a total of 108 grants were submitted to external funding sources (139 last year) by 62 different faculty and staff (74 last year) requesting a total of \$16,946,731 (\$21,861,989 last year). Of these 108, by June 30, 2017, 62 were funded, 12 were not funded, 3 were withdrawn, and 31 were still pending. Thirty grants submitted prior to July 1, 2016 were also funded this fiscal year, bringing the number of funded grants to 92. Of the 92 grants and contracts awarded during the 2016-17 fiscal year, 56 totaling \$5,549,143 resulted from new proposals; \$7,347,048 resulted from 36 continuing and/or incremental funding of multi-year awards.

Figure 1 shows external grant award activity over the past 15 years. The amount funded this year was 7.5% less than last year's award amount of \$13,073,255.



Notable new awards include:

- Cassandra Fallscheer, Darci Snowden, and Christian Schwab (Physics) received \$229,528 from the National Science Foundation for the first year of their project, *MRI: Acquisition of a Spectrograph for the CWU Research Telescope*. The total three-year award is \$264,439.
- Jennifer Dechaine (Biological Sciences) and Anne Johansen (Chemistry) received \$55,108 from the National Science Foundation for the first year of their project, *Collaborative Research: The Next Generation of STEM Teacher Preparation in Washington State*. The four-year award is \$213,815.
- Lisa Ely and Breanyn MacInnes (Geological Sciences) received \$83,554 from the National Science Foundation for the first year of their project, *Collaborative Research: Application of Paleoseismic Evidence and Tsunami Simulations to Quantify Megathrust Rupture Characteristics, South-Central Chile*. Their three-year award totals \$267,194.
- Yingbin Ge (Chemistry) received \$23,333 from the American Chemical Society for the first year of his project, *Theoretical Design of Long-Life Efficient Transition Metal Nanocluster Catalysts Towards the Activation of C-H Bonds at Low Temperatures*. The total three-year award is \$70,000.
- Tim Melbourne (Geological Sciences) received \$491,777 from U.S.D.I., U.S. Geological Survey for his project, *Incorporating rtGNSS into ShakeAlert*.
- Sathyanarayanan Rajendran (Engineering Technologies, Safety and Construction) received \$199,944 from Washington State Department of Labor and Industries for *Safe and Innovative Work Best Practices for Mechanical Crafts Booklet*.
- Three long-running CWU student development programs in Student Success received new five-year awards from the U.S. Department of Education:
 - Miriam Bocchetti's *CWU College Assistance Migrant Program (CAMP)* will receive \$424,999 per year.
 - Miriam Bocchetti and Ramon Cardenas' *High School Equivalency Academy* will receive \$474,965 per year.
 - Raymond Navarro and Mateo Arteaga's *Yakima Valley TRiO Educational Opportunities Center* will receive \$270,938 per year.

Figure 2. Amount & Percentage of Total Funding by Source

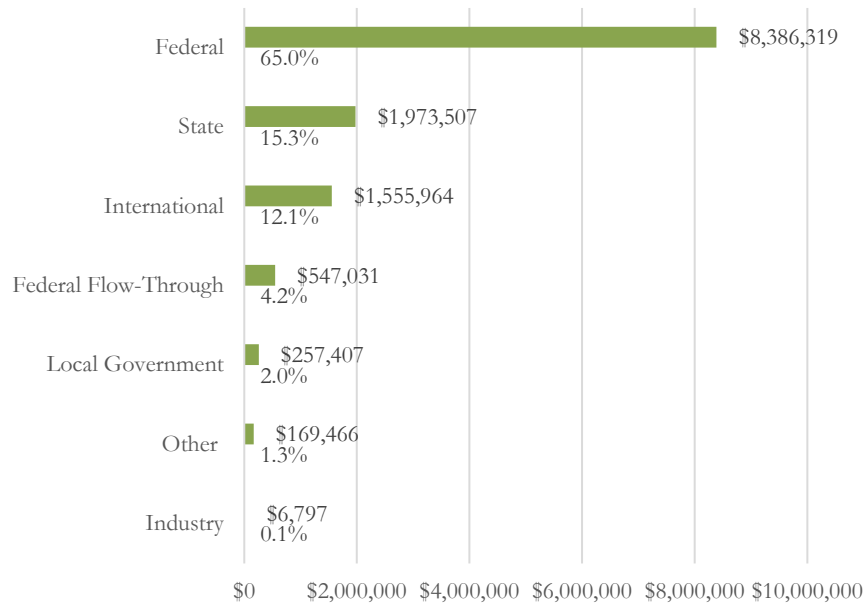


Figure 2 shows the distribution of funding support among the different funding sources. Federal agencies continue to provide the largest share of funded awards. Examples in the Local Government category include cities, counties, and public utility districts. Federal Flow-Through includes awards made by other universities and state agencies from federal funds they have been awarded. The Other category includes awards from tribes and associations.

Figure 3 displays the percentage of funding by federal agency. These percentages reflect annual award amounts, not total award amounts. Funding from the U.S. Department of Education totaling \$6,167,326 accounted for 69% of CWU’s federal funding, followed by funding from the National Science Foundation totaling \$1,572,820, accounting for 17.6%.

Figure 3. Amount & Percentage of Federal & Federal Flow-Through Funding by Agency

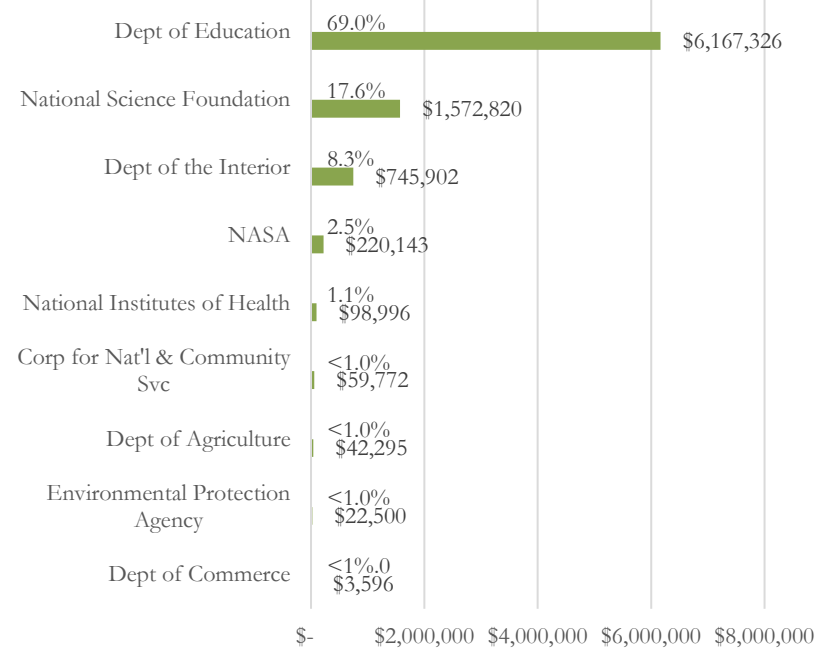


Table 1 lists the number of awards and award amounts in each of four funding categories.

Table 1. Funding Category by Number and Amount of Awards

Funding Category	# of Awards	Amount
Student Development	18	\$3,940,472
Other	21	\$5,652,408
Applied Research	7	\$ 619,770
Basic Research	46	\$2,683,541

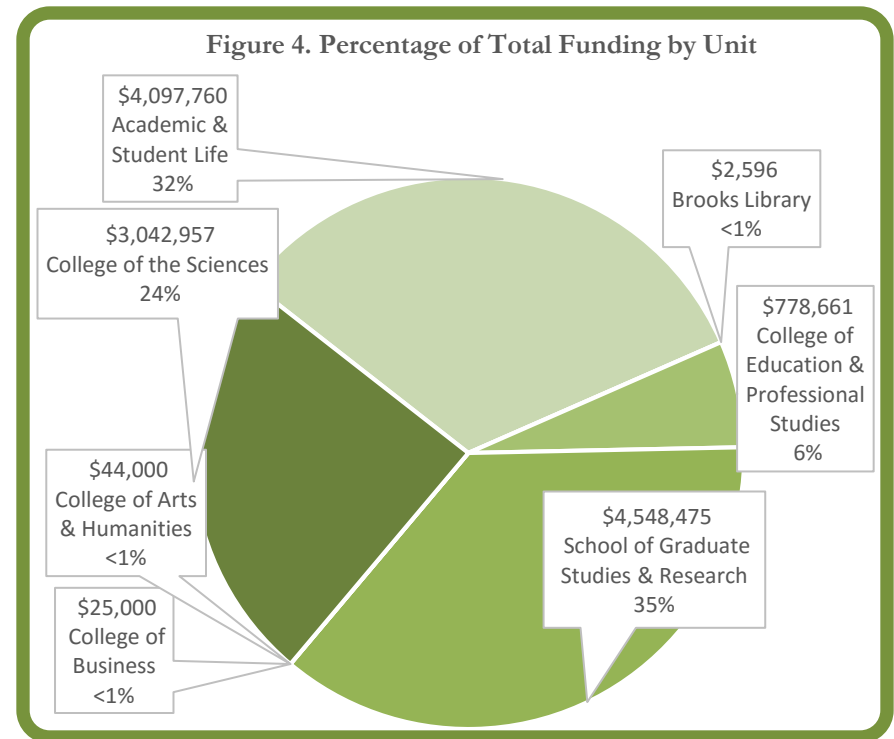
The 92 funded grants and contracts fall into one of these four categories:

- *Applied Research:* Awards whose focus is on the application of existing knowledge to solve real-world issues.
- *Basic Research:* Awards whose focus is discovery of new knowledge.
- *Student Development:* Awards whose focus is to enhance student recruitment, retention, and academic excellence. Examples of these awards include Student Support Services, McNair Scholars Program, and Asia University America Program.
- *Other:* Awards whose focus is on non-CWU students, like the GEAR UP programs and the Retired and Senior Volunteer Program.

Figure 4 illustrates the proportion of funds generated by the various units on campus. Units within Academic & Student Life accounted for 97% of the funds awarded.

Figure 5 details budgeted expenditures by categories on the amounts awarded this year. Of the \$12,896,191 awarded in fiscal year 2016-17, 35.2% was budgeted for faculty and staff salaries and benefits. Several staff positions in the Student Development and Programmatic categories are fully supported by grants. Faculty paid from grants have typically bought out time during the academic year, resulting in salary savings for their colleges, or are paid during the summer. The next highest budget category was for subcontracts at 23.9%. Included in this category are two very large subcontracts paid under the two GEAR UP grants. The categories for undergraduates and graduate students include wages, benefits, stipends, financial aid, research supplies, and travel.

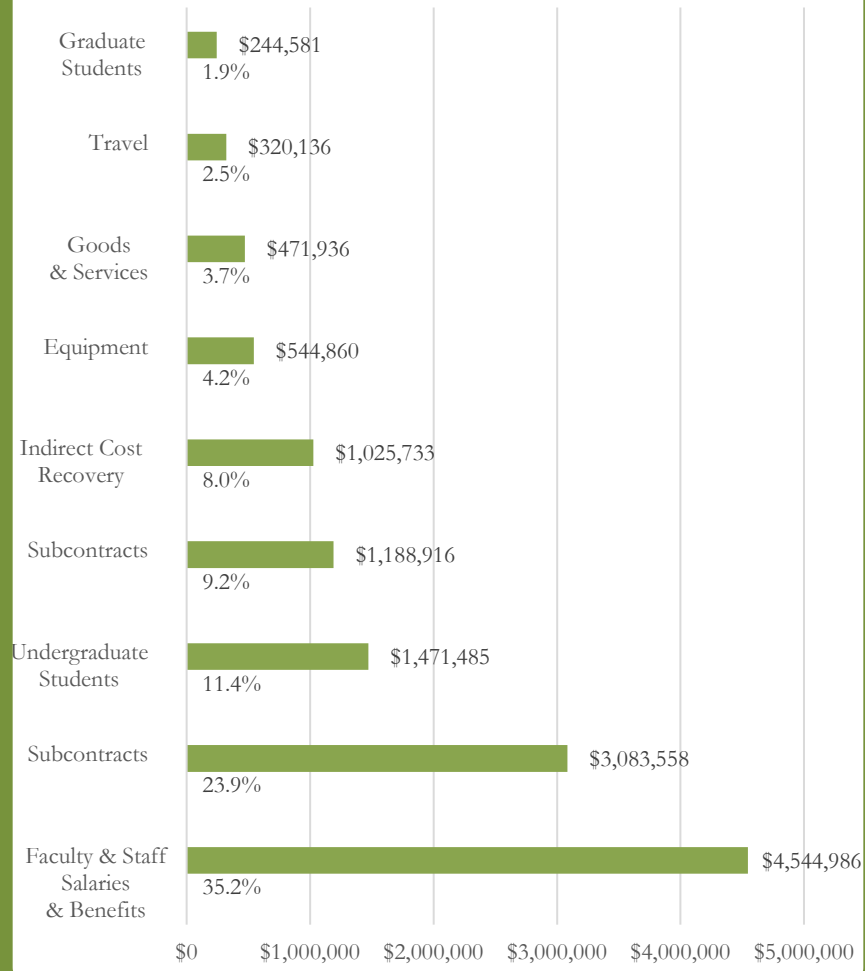
Indirect costs encompass those costs of doing business that are not easily associated with a particular grant, contract, project function or activity, but are necessary for the general operation of the organization and the activities it performs. Examples of indirect costs include heating, lighting, accounting services, and safety personnel. As shown in Figure 5, the portion of recovered indirect costs is effectively 8.0% although the university's federally negotiated indirect recovery is 52.5% of salaries and wages. This is due to several factors:



- U.S. Department of Education awards are typically limited to 8%, and as shown in Figure 3, account for 69% of the federal funding received.
- A number of funding agencies prohibit recovery of indirect costs.
- Other funding agencies limit recovery of indirect costs ranging from 5% to 20% of direct costs.
- Indirect recovery on awards that pre-date CWU's current agreement will remain at 51.5% of salaries/wages.

Because the majority of awards are reimbursement-based, indirect costs are typically invoiced and received after expenditures have been incurred. This results in considerable lag time between the beginning of the award and

Figure 5. Budgeted Expenditures by Categories



when expenditures are incurred and invoiced and indirect costs are received. Indirect costs are distributed on campus as follows: 35% to the PI's deans or equivalent; 30% to the School of Graduate Studies and Research; 20% to Business Affairs; and 15% to the Provost.

Central Washington University remains on a path toward continued growth in awarded grants and contracts. CWU's 5-year average is a 6.3% increase in total monies awarded. As points of reference, University of Washington's most recent 5-year average was -2.5% and Western Washington University's most recent 10-year average was -2.2%.

CWU's portfolio of funding sources is somewhat atypical for a predominately undergraduate institution. Notably low for a comprehensive regional university is the small number of grants (2 grants totaling \$554,235) from the state's education agency, the Office of the Superintendent of Public Instruction. The lack of proposals from the College of Business is also atypical for comprehensive universities.

The impact of CWU's grants and contracts on the local economy is considerable. Of the \$1,289,191 awarded, 99.9% is from entities outside of Kittitas County. The non-monetary impact on our region is also sizeable. For example, more than 5,000 middle and high school students in CWU's GEAR UP programs in Central Washington are afforded the opportunity to visit college campuses, earn college credits in high school, receive in-school tutoring, and participate in after-school educational programs.

The impact of CWU's grants and contracts within the university is also notable. Of the total amount awarded this fiscal year, 30.6% is budgeted for programs that support student recruitment, retention, and academic excellence. Faculty are also afforded opportunities to conduct research and other forms of scholarly activity at levels that would not otherwise be possible with university funding alone.

Summary of Grant Activity between July 1, 2016 and June 30, 2017, by Unit

Number of Grants Submitted

	July 1, 2016–June 30, 2017				Prior to July 1, 2016*			
	Funded	Not		Total	Funded	Not		Total
		Funded	Pending			Funded	Pending	
Academic & Student Life	10	0	6	16	6	1	0	7
Brooks Library	3	1	3	7	0	2	0	2
Business & Financial Affairs	6	0	0	6	3	1	0	4
College of Arts & Humanities	3	3	1	7	0	0	0	0
College of Business	1	0	0	1	0	0	0	0
College of Education & Professional Studies	5	2	4	11	1	4	0	5
College of the Sciences	30	6	14	50	17	12	1	30
School of Graduate Studies & Research	4	0	3	7	3	0	0	3
Total Number of Grants Submitted	62	12	31	105	30	20	1	51

*These grants were still pending when the 2015-16 Annual Report was prepared.

Dollar Amounts of Grants Submitted

	July 1, 2016–June 30, 2017				Prior to July 1, 2016*			
	Funded	Not		Total	Funded	Not		Total
		Funded	Pending			Funded	Pending	
Academic & Student Life	2,366,476	0	1,528,066	3,894,542	1,731,284	230,000	0	1,961,284
Brooks Library	2,596	20,000	53,000	75,596	0	3,500	0	3,500
Business & Financial Affairs	225,426	0	0	225,426	131,316	11,073	0	142,389
College of Arts & Humanities	44,000	81,000	98,090	223,090	0	0	0	0
College of Business	25,000	0	0	25,000	0	0	0	0
College of Education & Professional Studies	578,717	42,682	471,245	1,092,644	199,944	79,281	0	279,225
College of the Sciences	1,671,969	1,521,760	1,604,191	4,797,920	1,370,988	1,172,055	78,240	2,621,283
School of Graduate Studies & Research	4,511,972	0	2,101,180	6,613,152	36,503	0	0	36,503
Total Dollar Amount of Grants Submitted	9,426,156	1,665,442	5,855,772	16,947,370	3,470,035	1,495,909	78,240	5,044,184

*These grants were still pending when the 2015-16 Annual Report was prepared.

Academic & Student Life

Name Department	Title Agency	Amount Requested	Indirect	Status	Amount Funded
Bocchetti, Miriam Student Success	<i>CWU College Assistance Migrant Program (CAMP), Year 1 of 5</i> U.S. Department of Education	425,000	24,704	Funded*	424,999
Bocchetti, Miriam Student Success	<i>CWU College Assistance Migrant Program (CAMP), Year 2 of 5</i> U.S. Department of Education	424,999	24,704	Pending	
Bocchetti, Miriam Student Success	<i>Dare to Dream Academies: Exploring Your Future</i> Washington State Office of the Superintendent of Public Instruction	194,235	14,388	Funded	194,235
Bocchetti, Miriam & Ramon Cardenos Student Success	<i>High School Equivalency Academy, Year 1 of 5</i> U.S. Department of Education	474,918	34,054	Funded*	474,965
Bocchetti, Miriam & Ramon Cardenos Student Success	<i>High School Equivalency Academy, Year 2 of 5</i> U.S. Department of Education	474,965	34,057	Pending	
Charlton, Janie Early Childhood Learning Center	<i>Food Program Support for Early Learning Center</i> U.S. Department of Agriculture/Washington State Office of Superintendent of Public Instruction	24,232	-	Funded*	24,232
Charlton, Janie Early Childhood Learning Center	<i>Food Program Support for Early Learning Center</i> U.S. Department of Agriculture/Washington State Office of Superintendent of Public Instruction	18,063	-	Funded	18,063
Cook, Steve International Studies & Programs	<i>KEI Student Ambassadors</i> Knowledge Exchange Institute	2,500	-	Funded	2,500
Cook, Steve International Studies & Programs	<i>USAC Representative Program</i> University Studies Abroad Consortium	2,600	-	Funded	2,600
Cubilié, Anne Academic & Student Life	<i>BAS - Information Technology & Administrative Management, Year 10</i> Edmonds Community College/State Board for Community & Technical Colleges	214,006	19,455	Funded*	214,006
Cubilié, Anne Academic & Student Life	<i>BAS - Information Technology & Administrative Management, Year 11</i> Edmonds Community College/State Board for Community & Technical Colleges	214,006	19,455	Pending	
Cubilié, Anne Academic & Student Life	<i>BS Interdisciplinary Studies--Social Sciences/BS Social Services, Year 8</i> Pierce Community College/State Board for Community & Technical Colleges	322,144	29,286	Funded*	322,144
Cubilié, Anne Academic & Student Life	<i>BS Interdisciplinary Studies--Social Sciences/BS Social Services, Year 9</i> Pierce Community College/State Board for Community & Technical Colleges	322,144	29,286	Pending	
Fulp, Douglas Wellness Center	<i>The Social Norms Project</i> National Social Norms Institute, University of Virginia/Anhaueser Busch Foundation	9,600	-	Funded	9,600
Gordon, Rachel & Sherri Fujita International Studies & Programs	<i>WorldCat Summer Institution 2017 - Kurume Institute of Technology</i> Kurume University	13,567	1,233	Pending	
Gordon, Rachel & Sherri Fujita International Studies & Programs	<i>WorldCat Summer Institution 2017 - Shimane University</i> University of Shimane Junior College	78,385	7,126	Pending	
Kukar, Nicki International Studies & Programs	<i>Asia University America Program</i> Asia University	1,455,964	152,629	Funded	1,455,964
Navarro, Raymond Student Success	<i>CWU TRiO Student Support Services Program, Year 2 of 5</i> U.S. Department of Education	289,655	21,086	Funded	289,656
Navarro, Raymond Student Success	<i>Moses Lake/Wenatchee TRiO Educational Opportunities Center, Year 1 of 5</i> U.S. Department of Education	230,000	17,037	Not Funded*	

*Denotes proposals pending at the end of 2015-16.

Academic & Student Life (continued)

Name Department	Title Agency	Amount Requested	Indirect	Status	Amount Funded
Navarro, Raymond & Matego Arteaga Student Success	<i>Yakima Valley TRiO Educational Opportunities Center, Year 1 of 5</i> U.S. Department of Education	270,938	20,069	Funded*	270,938
Palm, Melanie Academic & Student Life	<i>BAS - ITAM & BS - IDS Social Studies, Final Year</i> Washington State University	178,290	16,209	Funded	178,290
Palm, Melanie Academic & Student Life	<i>Improve Student Services to Help Students iFINISH!, Year 2 of 5</i> Yakima Valley Community College/U.S. Department of Education	214,568	-	Funded	214,568
Wheeler, Holly Academic & Student Life	<i>Professional Development for 2017 Ex Libris Users of North America Conference</i> Washington State Library	1,000	-	Funded	1,000
Total Academic & Student Life		5,855,779	464,778		4,097,760

Brooks Library

Name Department	Title Agency	Amount Requested	Indirect	Status	Amount Funded
Blackson, Ginny Brooks Library	<i>CREW Workshop</i> Washington State Library			Withdrawn	
Blackson, Ginny Brooks Library	<i>Professional Development for 2017 Ex Libris Users of North America Conference</i> Washington State Library	1,000	-	Funded	1,000
Blackson, Maurice Brooks Library	<i>LSTA Professional Development Grants</i> Washington Secretary of State/Washington State Library	1,000	-	Pending	
Bledsoe, Erin; Gavin Spomer & Stacy Taylor Brooks Library	<i>Primo Day Conference 2017</i> Washington State Library	596	-	Funded	596
Fu, Ping Brooks Library	<i>Professional Development for 2017 Ex Libris Users of North America Conference</i> Washington State Library	1,000	-	Funded	1,000
Reilly, Michele Brooks Library	<i>LSTA Professional Development Grants</i> Washington State Library	3,000	-	Not Funded*	
Reilly, Michele Brooks Library	<i>Sheila Lai Research Award</i> Chinese American Association	500	-	Not Funded*	
Reilly, Michele Brooks Library	<i>Understanding Everyday Curators & Their Impact on the Humanities</i> <i>National Endowment for the Humanities</i>	40,000	-	Pending	
Rust, Maureen (Brooks Library) & Lisa Norris (English)	<i>The Big Read: The Round House</i> National Endowment for the Arts	20,000	-	Not Funded	
Stringfellow, Julia & Maurice Blackson Brooks Library	<i>Common Heritage</i> National Endowment for the Humanities	12,000	-	Pending	
Total Brooks Library		79,096	-		2,596

*Denotes proposals pending at the end of 2015-16.

Business & Financial Affairs

Name Department	Title Agency	Amount Requested	Indirect	Status	Amount Funded
Luvera, Michael Public Safety & Police Services	<i>Overtime Funding for Impaired Driving, Occupant Protection, Speeding & Distracted Driving</i> Washington Traffic Safety Commission	5,380	-	Funded	5,380
Scott, Shane Facilities Management	<i>Archaeological & Cultural Resources Services</i> Chelan County Public Utility District	20,000	4,893	Funded	20,000
Scott, Shane Facilities Management	<i>Archaeological Services</i> Lakeside Town Center Associates	11,073	3,005	Not Funded*	
Scott, Shane Facilities Management	<i>Archaeological Survey of the Teanaway Community Aquatic Restoration Project</i> Yakama Nation	32,790	8,400	Funded*	25,872
Scott, Shane Facilities Management	<i>Condit Reservoir Archaeological Update</i> Pacifcorp/TetraTech	6,797	286	Funded	6,797
Scott, Shane Facilities Management	<i>Department of Ecology Archaeological Services - Fish Pass Phase III</i> Washington State Department of Ecology	105,911	30,177	Funded	105,911
Scott, Shane Facilities Management	<i>Klickitat County USACE Tribal Housing Project</i> Tierra Right of Way Services, Ltd./U.S. Army Corps of Engineers	15,148	3,306	Withdrawn	
Scott, Shane Facilities Management	<i>Maryhill State Park Archaeological Damage Assessment</i> Washington State Parks & Recreation Commission	82,403	16,810	Funded*	94,544
Scott, Shane Facilities Management	<i>Maryhill State Park Archaeological Damage Assessment</i> Washington State Parks & Recreation Commission	73,059	2,060	Funded	73,059
Scott, Shane Facilities Management	<i>Public Safety Parking Lot Anthropological Survey</i> City of Ellensburg	14,279	4,006	Funded	14,279
Scott, Shane Facilities Management	<i>Suncadia Bike Path (Ducktown Garbage Dump)</i> New Suncadia, LLC	10,900	2,562	Funded*	10,900
Total Business & Financial Affairs		377,740	75,505		356,742

College of Arts & Humanities

Name Department	Title Agency	Amount Requested	Indirect	Status	Amount Funded
Altman, Matthew Philosophy/Religious Studies	<i>Summer UFC President Support</i> United Faculty Central	4,000	200	Funded	4,000
Cummings, Bobby English	<i>2017-18 NWP CRWP-SEED Professional Development in a High Need Middle/High School</i> University of California-Berkeley/U.S. Department of Education	20,000	1,212	Funded	20,000
Cummings, Bobby English	<i>i3 Scale-Up College-Ready Writers Program Year 1: 2017-18 Advanced Institute</i> University of California-Berkeley/U.S. Department of Education	20,000	736	Funded	20,000
Dormady, Jason History	<i>Guadalajara: The City Planned, Lived, & Performed, 1937-1972</i> National Endowment for the Humanities	5,985	-	Not Funded*	

*Denotes proposals pending at the end of 2015-16.

College of Arts & Humanities (continued)

Name Department	Title Agency	Amount Requested	Indirect	Status	Amount Funded
Levine, Marilyn History	<i>Chinese Sojourners to France: Testimonies on Change & Destiny</i> American Council of Learned Societies	70,000	-	Not Funded	
Robertston, Stacey (College of Arts & Humanities) & Charles Reasons (Law & Justice)	<i>Social Justice & Human Rights Dialogues</i> Bringing Theory to Practice	5,000	-	Not Funded	
Samples, Mark Music	<i>How Do You Sell Anti-Commercial Music? Invisible Branding in the 1960s American "Folk Music Revival"</i> National Endowment for the Humanities	6,000	-	Not Funded	
Snedeker, Jeffrey Music	<i>Hand & Valve (& Both!): 100 Years of Horn Teaching & Playing at the Paris Conservatoire 1802-1903, Year 1 of 2</i> National Endowment for the Humanities	98,090	26,912	Pending	
Total College of Arts & Humanities		229,075	29,060		44,000

College of Business

Name Department	Title Agency	Amount Requested	Indirect	Status	Amount Funded
Smith, Carlo Finance & Supply Chain Management	<i>New Career Opportunities for Non-Traditional Students & Veterans in Pierce County</i> CWU Foundation/Ben B. Cheney Foundation	25,000	-	Funded	25,000
Total College of Busienss		25,000	-		25,000

College of Education & Professional Studies

Name Department	Title Agency	Amount Requested	Indirect	Status	Amount Funded
Calahan, Scott & Charles Pringle Engineering Technologies, Safety & Construction	<i>STEM Guitar Building</i> Sinclair Community College	7,200	655	Funded	7,200
Carrothers, Carol Disability Services	<i>Deaf Fiesta Support, 2017</i> Washington State Department of Social & Health Services/Seattle Children's Hospital/Washington Sensory Disabilities Services	4,725	-	Funded	4,041
Carrothers, Carol Disability Services	<i>Disability Services, 2016-17</i> North Central Educational Service District	196,476	14,553	Funded	196,476
Claridge, Amy Family & Consumer Sciences	<i>Incredible Years Parent Training</i> Washington State Department of Social & Health Services	3,680	-	Not Funded*	
Connolly, Jerry Special Education Technology Center	<i>Special Education Technology Center, 2016-17</i> Washington State Office of the Superintendent of Public Instruction	360,000	26,666	Funded	360,000

*Denotes proposals pending at the end of 2015-16.

College of Education & Professional Studies (continued)

Name Department	Title Agency	Amount Requested	Indirect	Status	Amount Funded
Foch, Eric Health Sciences	<i>The Influence of a Prolonged Run on Neuromechanics in Women with & Without a History of Iliotibial Band Syndrome</i> American College of Sports Medicine (ACSM) Foundation	10,000	-	Not Funded*	
Gee, David Health Sciences	<i>CWU Registered Dietitian Diversity Program, Year 1 of 5</i> U.S. Department of Agriculture	18,000	-	Not Funded	
Johnson, Craig; Roger Beardsley & Holly Johnson Engineering Technologies, Safety & Construction	<i>Evaluation & Testing a Commercial Cokeless Reverberatory Furnace for Melting Iron</i> Splitvane Engineering/National Science Foundation	59,616	14,626	Not Funded*	
Lea, YiShan Language, Literacy & Special Education	<i>Praxis of Cultural Sustainability: A Q'eqchi' Case of Cultural Autonomy & Resistance against the GMO Giant, Monsanto</i> National Endowment for the Humanities	6,000	-	Withdrawn	
Leslie, Kristin Special Education Technology Center	<i>Special Education Technology Center, 2017-18</i> Washington State Office of the Superintendent of Public Instruction	360,000	26,667	Pending	
Lyman, Greg Engineering Technologies, Safety & Construction	<i>Large Scale Experimental Investigation of Partial Turbulence Effects</i> CWU Foundation/Dorothy Reed	5,500	200	Pending	
Lyman, Greg Engineering Technologies, Safety & Construction	<i>Large Scale Experimental Investigation of Partial Turbulence, Year 1 of 3</i> University of Washington/National Science Foundation	94,361	16,223	Pending	
Pritchett, Kelly Health Sciences	<i>Efficacy of a Sports Nutrition Program & Fueling Station on DII Collegiate Athletes' Nutrition Knowledge & Dietary Habits</i> National Collegiate Athletic Association	24,682	-	Not Funded	
Rajendran, Sathyanarayanan Engineering Technologies, Safety & Construction	<i>Safe & Innovative Work Best Practices for Mechanical Crafts Booklet</i> Washington State Department of Labor & Industries	199,944	18,177	Funded*	199,944
Roemer, Karen Health Sciences	<i>Athletic Training Position, Year 1 of 5</i> Ellensburg School District	10,643	-	Funded	11,000
Roemer, Karen Health Sciences	<i>Athletic Training Position, Year 2 of 5</i> Ellensburg School District	11,384	-	Pending	
Total College of Education & Professional Studies		1,372,211	117,767		778,661

College of the Sciences

Name Department	Title Agency	Amount Requested	Indirect	Status	Amount Funded
Andonie, Razvan Computer Science	<i>Neural Networks Analysis, Design & Optimization</i> FotoNation	100,000	24,534	Funded	100,000
Beck, Daniel & Gabriel Stryker Biological Sciences	<i>SOBRE MEXICO: Student Opportunities for Biological Research in Mexico, Year 2 of 3</i> National Science Foundation	83,518	8,421	Funded	83,518
Belofsky, Gil (Chemistry) & Blaise Dondji (Biological Sciences)	<i>Anthelmintic Activity of Plant Natural Products Against the Hookworm <i>Ancylostoma ceylanicum</i>, Year 3 of 3</i> National Institutes of Health	98,996	15,510	Funded	98,996

*Denotes proposals pending at the end of 2015-16.

College of the Sciences (continued)

Name Department	Title Agency	Amount Requested	Indirect	Status	Amount Funded
Belofsky, Gil; Timothy Beng & Levente Fabry-Asztalos Chemistry	<i>MRI: Acquisition of a 500 MHz NMR Spectrometer for Faculty Directed Non-Ph.D. Research, Curriculum Enhancement & as a Regional Resource at CWU</i> National Science Foundation	675,150	-	Not Funded	
Bohrson, Wendy Geological Sciences	<i>Collaborative Research: Crustal Modulation of Flood Basalts--Integrating Field, Geochemical & Computational Data for the Steens Basalt, Year 3 of 3</i> National Science Foundation	24,901	5,849	Funded*	24,901
Bohrson, Wendy Geological Sciences	<i>Collaborative Research: Thermodynamics of Magma Mixing, Year 2 of 3</i> National Science Foundation	82,329	16,608	Funded	82,329
Bowen, John Geography	<i>Restoring Scheduled Passenger Rail Service to the Stampede Pass Corridor</i> All Aboard Washington	3,058	510	Funded	3,058
Carnell, Lucinda (Biological Sciences), Martha Kurtz (Science Education), Pamela McMullin-Messier (Sociology), Alison Scoville (Biological Sciences) & Susan Kaspari (Geological Sciences)	<i>Transforming Undergraduate STEM Education at CWU through a Community-Based Research STEM Academy, Year 1 of 5</i> National Science Foundation	267,831	56,550	Not Funded	
Dechaine, Jennifer Biological Sciences	<i>Evolutionary Genomics of Abiotic Stress Resistance in Wild & Cultivated Sunflower, Year 3 of 4</i> University of Georgia/National Science Foundation	78,240	18,855	Pending*	
Dechaine, Jennifer (Biological Sciences) & Anne Egger (Geological Sciences)	<i>Collaborative Research: The Next Generation of STEM Teacher Preparation in Washington State, Year 1 of 4</i> National Science Foundation	55,108	12,148	Funded*	55,108
Egger, Anne Geological Sciences	<i>InTeGrate: Energy - Building a Community for Interdisciplinary Teaching about Energy for a Sustainable Future, Year 1 of 3</i> Carleton College/National Science Foundation	71,227	12,376	Not Funded*	
Egger, Anne Geological Sciences	<i>InTeGrate: Interdisciplinary Teaching of Geoscience for a Sustainable Future, Year 6 of 5</i> Carleton College/National Science Foundation	26,414	5,343	Funded	26,414
Egger, Anne Geological Sciences	<i>REU Site: Hazards and Risks of Climate Change in the Pacific Northwest, Year 2 of 3</i> National Science Foundation	118,144	-	Funded	118,144
Ely, Lisa & Breanyn MacInnes Geological Sciences	<i>Collaborative Research : Application of Paleoseismic Evidence and Tsunami Simulations to Quantify Megathrust Rupture Characteristics, South-Central Chile, Year 1 of 3</i> National Science Foundation	83,554	15,251	Funded*	83,554
Ernest, Kristina; Paul James; Jason Irwin & Steve Wagner Biological Sciences	<i>Low-Mobility Wildlife Monitoring for the I-90 Snoqualmie Pass East Project, Year 2 of 2</i> Washington State Department of Transportation	147,778	24,360	Funded	147,778
Ernest, Kristina; Paul James; Jason Irwin & Steve Wagner Biological Sciences	<i>Low-Mobility Wildlife Monitoring for the I-90 Snoqualmie Pass East Project, Supplement</i> Washington State Department of Transportation	25,264	2,882	Funded	25,264
Fallscheer, Cassandra; Darci Snowden & Christian Schwab Physics	<i>MRI: Acquisition of a Spectrograph for the CWU Research Telescope, Year 1 of 3</i> National Science Foundation	229,528	9,851	Funded*	229,528
Gabriel, Anthony Geography	<i>Monitoring of Yakama Nation Riparian Restoration Sites Phase 8</i> Yakama Nation	39,844	6,362	Funded	39,844
Gabriel, Anthony Geography	<i>Monitoring of Yakama Nation Riparian Restoration Sites, Phase 9</i> Yakama Nation	41,645	6,649	Pending	

*Denotes proposals pending at the end of 2015-16.

College of the Sciences (continued)

Name Department	Title Agency	Amount Requested	Indirect	Status	Amount Funded
Gabriel, Anthony & David Cordner Geography	<i>DNR Washington State Eelgrass Mapping/Light Penetration Monitoring Project, Years 1 & 2 of 2</i> Washington State Department of Natural Resources	156,400	19,740	Pending	
Gazis, Carey (Geological Sciences), Clary Arango (Biological Sciences), Anne Johansen (Chemistry) & Susan Kaspari (Geological Sciences)	<i>Acquisition of an Inductively Coupled Plasma/Optical Emission Spectrometer at CWU</i> National Science Foundation	127,539	2,487	Funded*	127,539
Ge, Yingbin Chemistry	<i>Theoretical Design of Long-Life Efficient Transition Metal Nanocluster Catalysts Towards the Activation of C-H Bonds at Low Temperatures, Year 1 of 3</i> American Chemical Society	23,333	-	Funded*	23,333
Hackenberger, Steve Anthropology	<i>Tryon Creek Archaeological Collection Project</i> U.S.D.A., National Forest Service, Wallowa-Whitman National Forest	2,500	833	Not Funded*	
Hickey, Robert Geography	<i>Stormwater Mapping for the City of East Wenatchee</i> City of East Wenatchee	6,854	1,142	Funded	6,854
Hickey, Robert & Donald Chance Geography	<i>Comprehensive Plan Updates for the City of Cle Elum</i> City of Cle Elum	19,498	3,250	Funded	19,498
Huerta, Audrey Geological Sciences	<i>Supplement: Sustainability for Livelihood, Values & the Environment, Year 2 of 3</i> National Science Foundation	42,902	1,391	Funded	42,902
Huerta, Audrey (Geological Sciences) & April Binder (Biological Sciences)	<i>Collaborative Proposal: Central Washington STEM Consortia, Year 1 of 5</i> National Science Foundation	589,252	34,816	Pending	
Huerta, Audrey (Geological Sciences) & Alison Scoville (Biological Sciences)	<i>SOLVE (Sustainability for Our Livelihood, Values, & Environment), Year 4 of 5</i> National Science Foundation	165,768	3,773	Funded	165,768
Huerta, Audrey & Paul Winberry Geological Sciences	<i>Collaborative Research: POLENET - Antarctica: Investigating Links Between Geodynamics & Ice Sheets - Phase 2, Year 5 of 5</i> National Science Foundation	101,727	21,814	Funded	101,727
Johansen, Anne Chemistry	<i>Collaborative Research: RISE - Research-Based Interdisciplinary STEM Education, Year 3 of 3</i> National Science Foundation	33,816	8,328	Funded*	33,816
Johansen, Anne Chemistry	<i>Collaborative Research: SuNRise: The Sustainable Network for Research-Based Interdisciplinary Science Education, Year 1 of 5</i> National Science Foundation	38,083	8,136	Not Funded	
Johansen, Anne Chemistry	<i>GRO Undergraduate Fellowship</i> U.S. Department of Environmental Protection	22,500	-	Funded	22,500
Johansen, Anne Chemistry	<i>Monitoring & Studying the Effects of Atmospheric Deposition & Other Water Quality Threats to Parks in the North Coast & Cascade Network, Year 3 of 5</i> U.S .D.I., National Park Service, Mt. Rainier National Park	9,000	1,340	Funded	9,000
Johansen, Anne Chemistry	<i>Monitoring & Studying the Effects of Atmospheric Deposition & Other Water Quality Threats to Parks in the North Coast & Cascade Network, Year 4 of 5</i> U.S.D.I., National Park Service, Mt. Rainier National Park	9,499	1,415	Pending	
Johansen, Anne Chemistry	<i>Particulate Matter & Respiratory Health in Ellensburg, Winter & Spring 2017</i> Washington State Department of Ecology	19,745	4,670	Funded	19,745
Kaspari, Susan Geological Sciences	<i>Collaborative Research: Constraining Black Carbon Direct Radiative Forcing: Improved Characterization of Aerosol Spectral Absorption & Black Carbon Scavenging, Year 1 of 3</i> National Science Foundation	75,178	19,994	Not Funded*	

*Denotes proposals pending at the end of 2015-16.

College of the Sciences (continued)

Name Department	Title Agency	Amount Requested	Indirect	Status	Amount Funded
Klyve, Dominic Mathematics	<i>Collaborative Research: RUI: Transforming Instruction in Undergraduate Mathematics via Primary Historical Sources, Year 2 of 5</i> National Science Foundation	99,748	9,314	Funded	99,748
Kovalerchuk, Boris Computer Science	<i>III: SMALL: RUI: Hybrid & Lossless Multidimensional Data Visual Representation for Knowledge Discovery, Year 1 of 3</i> National Science Foundation	162,573	38,487	Not Funded	
Kurtz, Martha (Science Education) Eric Cheney (Sociology), Judith Hennessy (Sociology), Anne Johansen (Chemistry) & Elizabeth Lee (Institutional Effectiveness)	<i>CWU ADVANCES: Managing Change to Support Women STEM Faculty</i> National Science Foundation	543,615	95,179	Not Funded*	
Kurtz, Martha (Science Education), Lucinda Carnell (Biological Sciences), Jennifer Dechaine (Biological Sciences) & Pam McMullin-Messier (Sociology)	<i>Transforming Undergraduate STEM Education at CWU through a Community-Based Research STEM Academy, Year 1 of 5</i> National Science Foundation	267,386	47,166	Not Funded*	
Lee, Jeffrey Geological Sciences	<i>Collaborative Research: Investigating Slip Distribution over Multiple Timescales across the Central Walker Lane: Implications for the Evolution of an Active Tectonic Plate Boundary, Year 3 of 3</i> National Science Foundation	44,669	8,304	Funded*	44,669
Lee, Jeffrey Geological Sciences	<i>Collaborative Research: Timing of Slip along the Sierra Nevada Frontal Fault Zone, California: A Thermochronologic Study, Year 1 of 2</i> National Science Foundation	55,100	10,684	Not Funded*	
Lee, Jeffrey Geological Sciences	<i>Collaborative Research: Timing of Slip along the Sierra Nevada Frontal Fault Zone, California: A Thermochronologic Study, Year 1 of 3</i> National Science Foundation	55,377	12,913	Pending	
Lee, Jeffrey Geological Sciences	<i>Geologic Mapping along the Gumdrops Hills Fault, Walker Lane Belt, Nevada: Documenting the Magnitude & Time of Dextral Slip</i> U.S.D.I., U.S. Geological Survey	17,492	2,668	Funded*	17,492
Lee, Jeffrey Geological Sciences	<i>Geologic Mapping along the Petrified Springs Fault, Walker Lane Belt, Nevada: Documenting the Late Paleogene & Neogene Fault Slip History</i> U.S.D.I., U.S. Geological Survey	17,492	2,668	Pending	
Lee, Jeffrey Geological Sciences	<i>Geologic Mapping of Dextrally Offset Tuff-Filled Paleovalleys in the Central Walker Lane, Nevada</i> Geological Society of America	2,500	-	Funded	7,500
Lee, Jeffrey Geological Sciences	<i>Spatial & Temporal Characterization of Dextrally Offset Tuff-Filled Paleovalleys in Central Walker Lane, Nevada</i> The Geological Society of America	2,500	-	Funded	1,550
Lillquist, Karl Geography	<i>Promoting Place-Based Learning & Geographic Literacy in Central Washington Through Development of a Yakima County Historical Airphoto Database</i> National Council for the Social Studies	2,481	-	Not Funded*	
Lillquist, Karl Geography	<i>The Hydrological Significance of Active & Inactive Rock Glaciers in the Eastern Cascades, Washington</i> Evolving Earth Foundation	2,163	-	Funded	2,163
Lorenz, Joseph & Nicole Jastremski Anthropology	<i>MRI: Acquisition of Illumina MiSeq FGx for Research & Student Training</i> National Science Foundation	154,634	-	Not Funded	
MacInnes, Breanyn Geological Sciences	<i>Tsunamis in the Strait of Juan de Fuca & Northern Puget Sound—Differentiating Cascadia from Non-Cascadia Sources</i> U.S.D.I., U.S. Geological Survey	73,323	10,146	Not Funded*	
MacInnes, Breanyn Geological Sciences	<i>Tsunamis in the Strait of Juan de Fuca & Northern Puget Sound—Differentiating Cascadia from Non-Cascadia Sources</i> U.S.D.I., U.S. Geological Survey	74,679	13,424	Pending	

*Denotes proposals pending at the end of 2015-16.

College of the Sciences (continued)

Name Department	Title Agency	Amount Requested	Indirect	Status	Amount Funded
McCutcheon, Patrick Anthropology	<i>2017 CWU Lopez Island CRM Archaeology Field School Work Plan</i> , U.S.D.I., Bureau of Land Management	18,845	3,883	Not Funded*	
McCutcheon, Patrick Anthropology	<i>CWU Cultural Resource Management Archaeology Field School: San Juan Islands, Year 1 of 5</i> U.S.D.I., Bureau of Land Management	20,000	1,617	Funded	20,000
Melbourne, Timothy Geological Sciences	<i>Deploying NASA NGSS-based Technology at NOAA's Tsunami Warning Centers</i> NASA	49,824	4,403	Funded*	49,824
Melbourne, Timothy Geological Sciences	<i>Deploying NASA NGSS-based Technology at NOAA's Tsunami Warning Centers Supplement</i> NASA	5,000	-	Funded	5,000
Melbourne, Timothy Geological Sciences	<i>Geodasy Advancing Geosciences & Earthscope, Year 4 of 5</i> UNAVCO, Inc./National Science Foundation	124,100	33,945	Funded	124,100
Melbourne, Timothy Geological Sciences	<i>Incorporating rtGNSS into Shake.Alert: Collaborative with Central Washington University, UNAVCO Inc.</i> U.S.D.I., U.S. Geological Survey	827,217	67,672	Funded*	491,777
Melbourne, Timothy Geological Sciences	<i>Production Real-Time GNSS for Shake.Alert - CWU, Year 1 of 2</i> U.S.D.I., U.S. Geological Survey	264,556	70,255	Pending	
Melbourne, Timothy Geological Sciences	<i>Real-Time Operations of the Pacific Northwest Geodetic Array, Year 3 of 5</i> U.S.D.I., U.S. Geological Survey	101,959	26,599	Funded	101,959
Melbourne, Timothy & Walter Szeliga Geological Sciences	<i>EarthCube Building Blocks: Collaborative Proposal: Deploying Multi-Facility Cyberinfrastructure in Commercial & Private Cloud-based Systems, Year 1 of 2</i> IRIS/UNAVCO/National Science Foundation	45,498	12,700	Funded*	45,498
Oursland, Mark (Mathematics), Keith Salyer (TEACH) & Susan Connolly (TEACH)	<i>Rural Alliance Partnership for Inquiry & Development (RAPID), Year 1 of 3</i> Washington State University/National Science Foundation	45,400	12,673	Not Funded*	
Palmquist, Bruce; Vanessa Hunt; Janet Shiver; Allyson Rogan-Klyve & Ian Loverro Science Education	<i>CWU Robert Noyce Scholarship Program - Phase II</i> National Science Foundation	223,489	23,567	Not Funded	
Piacsek, Andrew Physics	<i>Acoustic Study of Proposed Wenas Firing Range</i> Washington State Department of Fish & Wildlife	11,130	1,987	Funded*	11,130
Pratt-Sitaula, Beth Geological Sciences	<i>Collaborative Research: A Synthesis of EarthScope Educational Resources Integrated into the "Alaska Native Geoscience Learning Experience", Year 1 of 3</i> National Science Foundation	102,973	6,028	Pending	
Radeke, Mary Psychology	<i>What Can a Smile Tell Us? Exploration of Facial Expressions in the Laboratory</i> National Education Association	2,000	-	Not Funded*	
Snowden, Darci Physics	<i>Enhancing NASA-Related Research & Educational Activities at CWU, Year 2 of 3</i> Washington NASA Space Grant Consortium/University of Washington	10,000	-	Funded*	10,000
Snowden, Darci Physics	<i>Enhancing NASA-Related Research & Educational Activities at CWU, Year 3 of 3</i> Washington NASA Space Grant Consortium/University of Washington	10,000	-	Funded*	10,000
Snowden, Darci Physics	<i>Magnetospheric Ionization & Energy Deposition in Titan's Upper Atmosphere, Year 3 of 4</i> NASA	63,474	13,548	Funded*	62,994
Snowden, Darci Physics	<i>Magnetospheric Ionization & Energy Deposition in Titan's Upper Atmosphere, Year 4 of 4</i> NASA	51,765	13,548	Funded	51,765

*Denotes proposals pending at the end of 2015-16.

College of the Sciences (continued)

Name Department	Title Agency	Amount Requested	Indirect	Status	Amount Funded
Snowden, Darci Physics	<i>Northwest Earth & Space Science Pipeline (NESSP) "Ignite, Innovate, Inspire: Launching NASA's Next Generation", Year 2 of 5</i> Washington NASA Space Grant Consortium/University of Washington	30,560	2,060	Funded	30,560
Sorey, Timothy Chemistry	<i>Wastewater Treatment Outreach - BioSolid Project</i> Washington State Department of Ecology	80,553	21,145	Funded	80,553
Szeliga, Walter & Timothy Melbourne Geological Sciences	<i>Management & Operations of the National Geophysical Observatory for Geosciences (NGEO), Year 1 of 10</i> UNAVCO, Inc./National Science Foundation	115,000	31,138	Pending	
Tester, Griff Sociology	<i>Older Lesbian & Gay Adults, Social Network Types & the Meaning of a Quality Network</i> American Psychological Foundation	15,000	-	Not Funded*	
Winberry, Paul Geological Sciences	<i>Collaborative Research: Grounding Line Dynamics: Crary Ice Rise Revisited, Year 2 of 3</i> National Science Foundation	49,825	13,606	Funded*	49,825
Winberry, Paul Geological Sciences	<i>Collaborative Research: Grounding Line Dynamics: Crary Ice Rise Revisited, Year 3 of 3</i> National Science Foundation	33,732	8,578	Funded	33,732
Winberry, Paul Geological Sciences	<i>Collaborative Research: Ice Shelf Response to a Large Calving Event & the Role of Suture Zones in Maintaining the Stability of the Larsen C Ice Shelf, Antarctica, Year 1 of 3</i> National Science Foundation	55,842	13,846	Pending	
Winberry, Paul Geological Sciences	<i>Collaborative Research: Ice Stream Sliding Laws: Observations & Modeling from Laboratory to Geophysical Scales, Year 1 of 3</i> National Science Foundation	48,743	13,846	Pending	
Winberry, Paul Geological Sciences	<i>Collaborative Research: Resolving Earth Structure Influence on Ice Sheet Stability in the Wilkes Subglacial Basin (RESISSt), Year 1 of 4</i> National Science Foundation	52,632	12,349	Pending	
Winberry, Paul Geological Sciences	<i>Thwaites Glacier Ground-Based Geophysics, Year 1 of 5</i> Pennsylvania State University/National Science Foundation	20,101	4,981	Pending	
Total College of the Sciences		7,751,073	1,040,115		3,042,957

School of Graduate Studies & Research

Name Department	Title Agency	Amount Requested	Indirect	Status	Amount Funded
Archer, Kevin School of Graduate Studies & Research	<i>CWU McNair Scholars Program, Year 5 of 5</i> U.S. Department of Education	226,600	12,925	Funded	226,600
Archer, Kevin School of Graduate Studies & Research	<i>CWU McNair Scholars Program, Year 1 of 5</i> U.S. Department of Education	226,600	12,637	Pending	
Findley, Carol Retired & Senior Volunteer Program	<i>Health Care Insurance Outreach, Education & Advocacy, Year 2 of 2</i> Washington State Office of the Insurance Commissioner	16,360	-	Funded*	16,360
Findley, Carol Retired & Senior Volunteer Program	<i>Health Care Insurance Outreach, Education & Advocacy, Year 1 of 2</i> Washington State Office of the Insurance Commissioner	16,180	-	Pending	
Findley, Carol Retired & Senior Volunteer Program	<i>RSVP of Kittitas County, 2017-18, Year 3 of 3</i> Corporation for National & Community Service	59,772	2,030	Funded	59,772

*Denotes proposals pending at the end of 2015-16.

School of Graduate Studies & Research (continued)

Name Department	Title Agency	Amount Requested	Indirect	Status	Amount Funded
Findley, Carol Retired & Senior Volunteer Program	<i>RSVP Program Support, Year 3 of 3</i> Combined Federal Campaign	4,346	-	Funded*	4,346
Findley, Carol Retired & Senior Volunteer Program	<i>WARSVPD RSVP Program Support, 2016-17, Year 2 of 2</i> Washington State Department of Commerce	15,797	-	Funded*	15,797
Guggino, Julie Research & Sponsored Programs	<i>CWU GEAR UP: Project MOSAIC2, Year 6 of 7</i> U.S. Department of Education	1,632,000	42,440	Funded	1,632,000
Guggino, Julie Research & Sponsored Programs	<i>CWU GEAR UP Program: Harvest of Hope and Opportunity (H2O), Year 1 of 7</i> U.S. Department of Education	1,858,400	72,382	Pending	
Guggino, Julie Research & Sponsored Programs	<i>Project SOAR2: Success and Opportunity through Affordability, Rigor & Relevance, Year 3 of 7</i> U.S. Department of Education	2,593,600	65,452	Funded	2,593,600
Total School of Graduate Studies & Research		6,649,655	207,866		4,548,475

*Denotes proposals pending at the end of 2015-16.