

**Central Washington University**  
**Annual Report**  
**of**  
**External Grant & Contract Activities**  
**for**  
**July 1, 2015–June 30, 2016**

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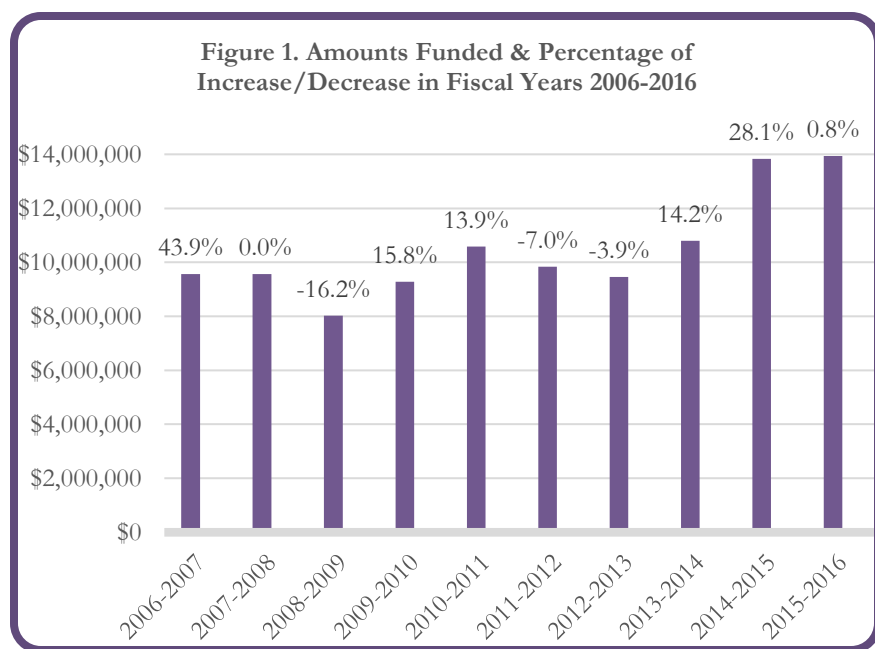
**School of Graduate Studies & Research**

Compiled & Analyzed by Julie Guggino  
August 2016

## Summary of External Report of Grants and Contracts Activity for July 1, 2015–June 30, 2016

Grants funded during this fiscal year totaled \$13,973,255, a university record. Between July 1, 2015 and June 30, 2016, a total of 139 grants were submitted to external funding sources (109 last year) by 74 different faculty and staff (64 last year) requesting a total of \$21,861,989 (\$16,964,271 last year). Of these 139, by June 30, 2016, 69 were funded, 18 were not funded, 2 were withdrawn, and 50 were still pending. Fifteen grants submitted prior to July 1, 2015 were also funded this fiscal year, bringing the number of funded grants to 84. Of the 84 grants and contracts awarded during the 2015-16 fiscal year, 63 totaling \$7,024,785 resulted from new proposals; \$6,918,470 resulted from 21 continuing and/or incremental funding of multi-year awards.

Figure 1 shows external grant award activity over the past 10 years. The amount funded this year was 0.8% more than last year's award amount of \$13,830,127, another university record high.



Notable new awards include:

- Dan Beck and Gabriel Stryker, Biological Sciences, received \$82,463 from the National Science Foundation for the first year of their project, *SOBRE MEXICO: Student Opportunities for Biological Research in Mexico*. The total three-year award is \$249,499.
- Jennifer Dechaine, Biological Sciences/Science Education, received \$919,413 from Washington State Opportunity Scholarship for the first year of *CWU Teach: An Innovative Undergraduate STEM Teacher Preparation Program*. The total two-year award is \$2,189,801.
- Roxanne Easley, History, received \$44,000 from the U.S. Department of the Interior National Parks Service for *Sitka National Historic Park Scholars-in-Parks Project*.
- Anne Egger, Geological Sciences, received \$123,522 from the National Science Foundation for *REU Site: Hazards and Risks of Climate Change in the Pacific Northwest, Year 1*. The total three-year award is \$360,000.
- Kristina Ernest, Paul James, Jason Irwin, and Steve Wagner, Biological Sciences, received \$248,198 from the Washington State Department of Transportation for *Low-Mobility Wildlife Monitoring for the I-90 Snoqualmie Pass East Project*. The total two-year award is \$396,976.
- Gerard Hogan, Library, received \$17,000 from the National Endowment for the Arts for *The Big Read: The Things They Carried*.
- Chris Mattinson, Geological Sciences, received \$291,000 from the National Science Foundation for *Scanning Electron Microscope to Support Natural Science Research*.
- Raymond Navarro, Academic Achievement Programs, received \$281,219 from the U.S. Department of Education for the first year of the *CWU TRiO Student Support Services Program*. The total five-year award is \$1,406,095.
- Melanie Palm, Extended Learning, received \$261,324 from Yakima Valley Community College/U.S. Department of Education to *Improve Student Services to Help Students ¡FINISH!* The total five-year award is \$1,285,141.

**Figure 2. Percentage of Total Funding by Source**

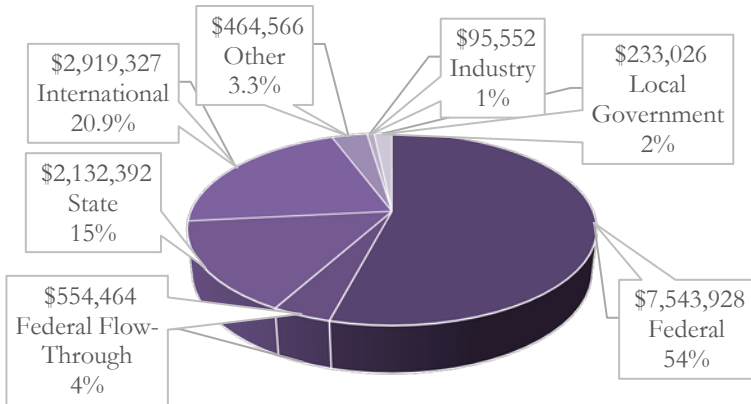


Figure 2 shows the distribution of funding support among the different funding sources. Federal agencies continue to provide the largest share of funded awards. Examples in the Local Government category include cities, counties, and public utility districts. Federal Flow-Through includes awards made 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 \$6,079,571 accounted for 75.1% of CWU's federal funding, followed by funding from the National Science Foundation totaling \$1,355,734, accounting for 16.7%.

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

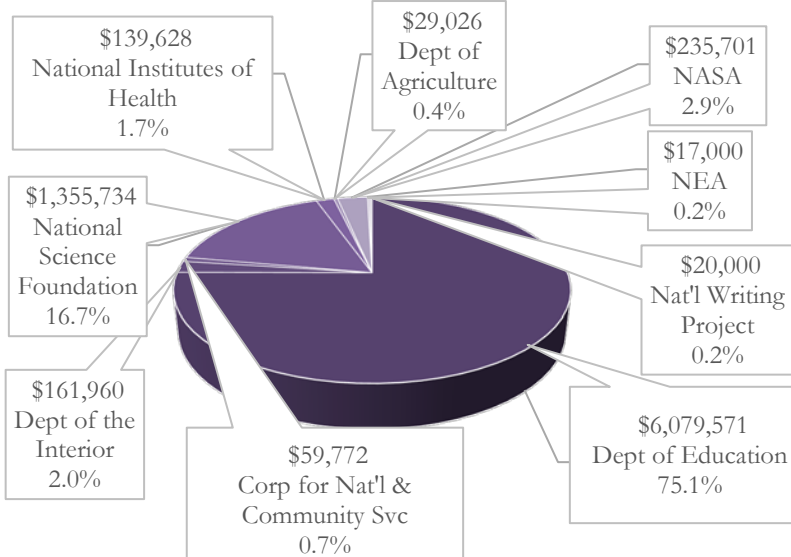


Table 1 lists the number of awards and award amounts in each of the four categories. The 84 funded grants and contracts fall into one of four categories:

- *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.

**Table 1. Funding Category by Number and Amount of Awards**

Funding Category	# of Awards	Amount
Student Development	20	\$5,317,486
Other	22	\$5,917,205
Applied Research	2	\$ 10,410
Basic Research	40	\$2,698,154

Figure 4 illustrates the proportion of funds generated by the various units on campus. Units within Academic & Student Life accounted for 98.2% of the funds awarded.

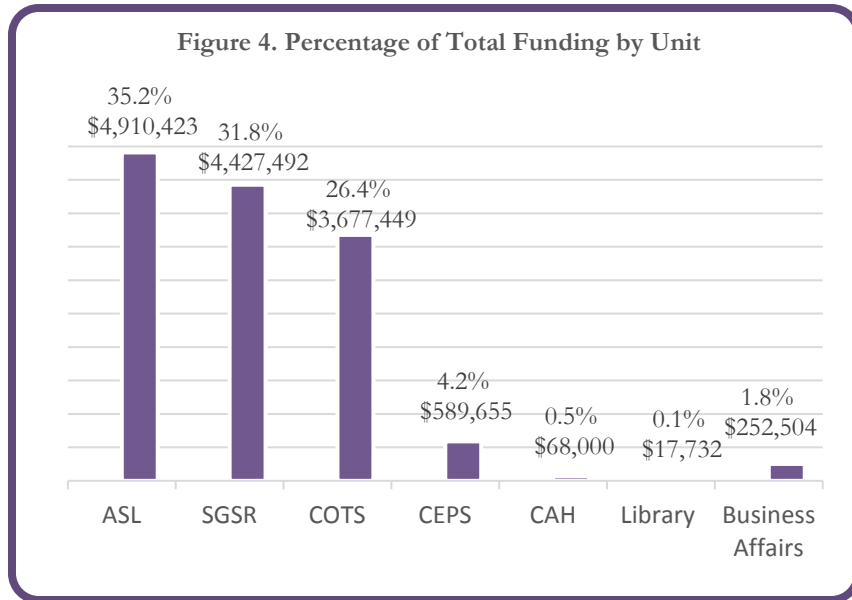
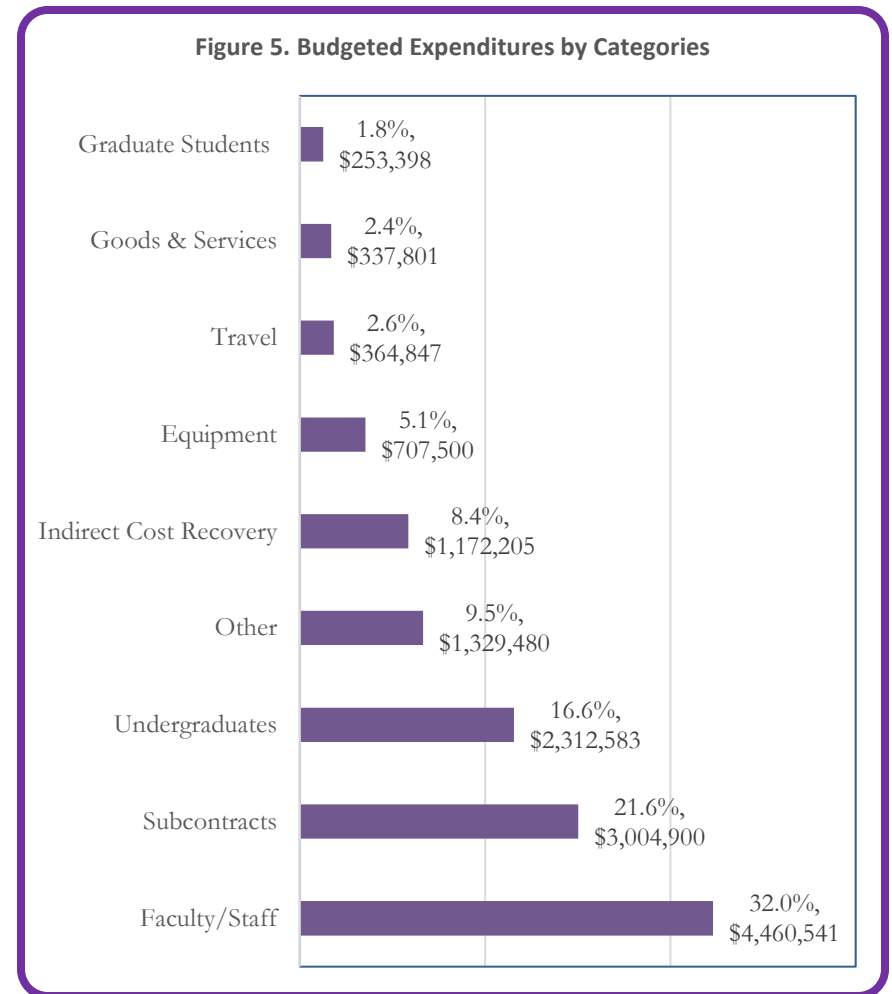


Figure 5 details budgeted expenditures by categories on the amounts awarded this year. Of the \$13,943,255 awarded in fiscal year 2015-16, 32% was budgeted for faculty and staff salaries and benefits. Several staff positions in the Student Development and Programmatic categories are fully supported by 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 21.6%. 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 8.4% although the university's

federally negotiated indirect recovery is 51.5% 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 75.1% 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.

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 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 is clearly on a path toward continued growth in awarded grants and contracts. CWU's 10-year average is a 9% increase in total monies awarded. As points of reference, last year University of Washington's 5-year average increase was 2.6%, Washington State University's 10-year average was 5.2%, and Western Washington University's 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 \$560,457) 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 \$13,943,255 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, 38.1% 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, 2015 and June 30, 2016, by Unit

### Number of Grants Submitted

	July 1, 2015–June 30, 2016				Prior to July 1, 2015*			
	Not				Not			
	Funded	Funded	Pending	Total	Funded	Funded	Pending	Total
Academic & Student Life	14	3	7	24	3	0	0	3
Brooks Library	2	2	2	6	0	2	0	2
Business & Financial Affairs	12	1	3	16	0	0	0	0
College of Arts & Humanities	2	3	1	6	1	0	0	1
College of Education & Professional Studies	7	4	4	15	2	1	0	3
College of the Sciences	27	5	30	62	8	10	0	18
School of Graduate Studies & Research	5	0	3	8	1	0	0	1
<b>Total Number of Grants Submitted</b>	<b>69</b>	<b>18</b>	<b>50</b>	<b>137</b>	<b>15</b>	<b>13</b>	<b>0</b>	<b>28</b>

\*These grants were still pending when the 2014-15 Annual Report was prepared.

### Dollar Amounts of Grants Submitted

	July 1, 2015–June 30, 2016				Prior to July 1, 2015*			
	Not				Not			
	Funded	Funded	Pending	Total	Funded	Funded	Pending	Total
Academic & Student Life	3,543,705	591,279	1,967,006	6,101,990	1,366,718	0	0	1,366,718
Brooks Library	17,732	30,500	3,500	51,732	0	14,500	0	14,500
Business & Financial Affairs	252,504	1,750	118,266	372,520	0	0	0	0
College of Arts & Humanities	24,000	112,510	5,985	142,495	44,000	0	0	44,000
College of Education & Professional Studies	571,311	334,121	273,240	1,178,672	18,344	5,000	0	23,344
College of the Sciences	3,223,018	524,078	2,974,189	6,721,285	454,431	922,971	0	1,377,402
School of Graduate Studies & Research	4,411,454	0	36,503	4,447,957	16,038	0	0	16,038
<b>Total Dollar Amount of Grants Submitted</b>	<b>12,043,724</b>	<b>1,594,238</b>	<b>5,378,689</b>	<b>19,016,651</b>	<b>1,899,531</b>	<b>942,471</b>	<b>0</b>	<b>2,842,002</b>

\*These grants were still pending when the 2014-15 Annual Report was prepared.

## Academic & Student Life

Name Department	Title Agency	Amount Requested	Indirect	Status	Amount Funded
Bocchetti, Miriam Student Success	<i>2015-17 Washington State Supplemental Grant for CAMP, Years 1 &amp; 2 of 2</i> Washington Student Achievement Council	7,142	-	Funded	7,142
Bocchetti, Miriam Student Success	<i>Central Washington University College Assistance Migrant Program, Year 5 of 5</i> U.S. Department of Education	424,985	23,398	Funded	424,985
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	Pending	
Bocchetti, Miriam Student Success	<i>Dare to Dream Academies: Exploring Your Future</i> Washington State Office of the Superintendent of Public Instruction	200,457	14,849	Funded	200,457
Bocchetti, Miriam & Jerry Enriquez Student Success	<i>Central Washington University High School Equivalency Program, Year 5 of 5</i> U.S. Department of Education	512,196	36,255	Funded	512,196
Bocchetti, Miriam & Jerry Enriquez Student Success	<i>High School Equivalency Academy, Year 1 of 5</i> U.S. Department of Education	474,918	34,054	Pending	
Charlton, Janie Early Childhood Learning Center	<i>Affordable Child Care Program, 2015-17, Years 1 &amp; 2 of 2</i> Washington Student Achievement Council/U.S. Department of Agriculture	30,000	-	Funded	27,526
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	30,000	-	Pending	
Cook, Steve International Studies & Programs	<i>USAC Representative Program</i> University Studies Abroad Consortium	2,600	-	Funded	2,600
Cubilié, Anne Academic Affairs	<i>BAS - Information Technology &amp; Administrative Management, Year 10</i> Edmonds Community College/State Board for Community & Technical Colleges	214,006	19,455	Pending	
Cubilié, Anne Academic Affairs	<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
Hollar, Jesslyn Extended Learning	<i>Northcentral Washington Teacher Residency Program, Year 1 of 2</i> Washington State Professional Educator Standards Board	416,700	-	Not Funded	
Klyve, Dominic Douglas Honors College	<i>The William O. Douglas Honors College Miniversity</i> Bringing Theory to Practice	1,000	-	Funded	1,000
Kukar, Nicki International Studies & Programs	<i>Asia University America Program</i> Asia University	1,685,558	152,628	Funded	1,685,558
Navarro, Raymond Student Success	<i>CWU TRiO Student Support Services Program, Year 1 of 5</i> U.S. Department of Education	281,219	20,461	Funded*	281,219

\*Denotes proposals pending at the end of 2014-15.

**Academic & Student Life (continued)**

Name Department	Title Agency	Amount Requested	Indirect	Status	Amount Funded
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	Pending	
Navarro, Raymond & Matego Arteaga Student Success	<i>Central Washington University's Yakima County Communities Education Opportunity Center, Year 5 of 5</i> U.S. Department of Education	263,047	19,485	Funded	263,047
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	Pending	
Palm, Melanie Extended Learning	<i>Improve Student Services to Help Students ¡FINISH!, Year 1 of 5</i> Yakima Valley Community College/U.S. Department of Education	261,234	-	Funded	261,324
Radwan, Ann International Studies & Programs	<i>Liuzhou City Masters Cohort 2015-16</i> Liuzhou People's Municipal Government (China)	736,228	104,533	Funded*	1,033,519
Radwan, Ann International Studies & Programs	<i>University of Shimane Junior College UESL Program, Summer 2015</i> University of Shimane Junior College	56,500	5,135	Funded*	51,980
Radwan, Ann International Studies & Programs	<i>WorldCat 2016 - Jilin University</i> Jilin University	55,800	5,073	Not Funded	
Radwan, Ann International Studies & Programs	<i>WorldCat 2016 - Kurume University</i> Kurume University	26,570	2,415	Funded	26,570
Radwan, Ann International Studies & Programs	<i>WorldCat 2016 - Proyecta</i> Amexid	68,000	6,182	Funded	68,000
Radwan, Ann International Studies & Programs	<i>WorldCat 2016 - Shimane University</i> University of Shimane Junior College	57,100	5,191	Funded	53,700
Radwan, Ann (International Studies & Programs) & Anne Cubilie (Academic Affairs)	<i>Afghan Junior Faculty Development Program</i> Institute of International Education	118,779	12,720	Not Funded	
<b>Total Academic &amp; Student Life</b>		<b>7,181,721</b>	<b>552,930</b>		<b>4,910,423</b>

**Brooks Library**

Name Department	Title Agency	Amount Requested	Indirect	Status	Amount Funded
Blackson, Ginny Library	<i>WSL Professional Development Grant</i> Washington Secretary of State/Washington State Library	742	-	Funded	732
Hogan, Gerard Library	<i>The Big Read: The Things They Carried</i> National Endowment for the Arts	20,000	-	Funded	17,000

\*Denotes proposals pending at the end of 2014-15.



**Brooks Library (continued)**

Name Department	Title Agency	Amount Requested	Indirect	Status	Amount Funded
Reilly, Michele Library	<i>Cultural Competency Training</i> Oregon State University/National Science Foundation	2,500	-	Not Funded*	
Reilly, Michele Library	<i>LSTA Professional Development Grants</i> Washington State Library	3,000	-	Pending	
Reilly, Michele Library	<i>NEH Common Heritage Project</i> National Endowment for the Humanities	12,000	-	Not Funded*	
Reilly, Michele Library	<i>Preservation Needs Assessment Planning Grant</i> National Endowment for the Humanities	22,300	-	Not Funded	
Reilly, Michele Library	<i>Sheila Lai Research Award</i> Chinese American Association	500	-	Pending	
Wise, Mary Library	<i>Preservation of CWU Classical Music Historical Recordings</i> Association for Recorded Sound Collections	8,200	-	Not Funded	
<b>Total Brooks Library</b>		<b>69,242</b>	<b>-</b>		<b>17,732</b>

**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 &amp; Distracted Driving</i> Washington Traffic Safety Commission	4,043	-	Funded	4,043
Scott, Shane Facilities Management	<i>1102 Archaeological Services</i> 1102 LLC	1,750	488	Not Funded	
Scott, Shane Facilities Management	<i>Anderson Creek Faunal Analysis</i> Washington State Department of Transportation	7,500	833	Funded	7,500
Scott, Shane Facilities Management	<i>Archaeological &amp; Cultural Resources Services</i> Chelan County Public Utility District	20,000	4,893	Funded	20,000
Scott, Shane Facilities Management	<i>Archaeological Service</i> Lakeside Town Center Associates	11,073	3,005	Pending	
Scott, Shane Facilities Management	<i>Archaeological Services for Grant County P.U.D.</i> Grant County Public Utility District	28,515	7,288	Funded	28,515
Scott, Shane Facilities Management	<i>Archaeological Survey of the Teanaway Community Aquatic Restoration Projects</i> Yakama Nation	24,790	6,040	Pending	

\*Denotes proposals pending at the end of 2014-15.

**Business & Financial Affairs (continued)**

Name Department	Title Agency	Amount Requested	Indirect	Status	Amount Funded
Scott, Shane Facilities Management	<i>Condit Reservoir Archaeological Update</i> Pacifcorp/TetraTech	8,509	727	Funded	8,509
Scott, Shane Facilities Management	<i>Cultural Archaeological Surveys, 2015-16</i> Yakama Nation	84,641	17,047	Withdrawn	
Scott, Shane Facilities Management	<i>Department of Ecology Archaeological Services - Fish Pass Phase III</i> Washington State Department of Ecology	29,700	4,950	Funded	29,700
Scott, Shane Facilities Management	<i>DR Horton Archaeological Services</i> DR Horton	8,571	2,057	Funded	8,571
Scott, Shane Facilities Management	<i>Granite Archaeological Services</i> Granite Construction	30,272	6,996	Funded	30,272
Scott, Shane Facilities Management	<i>Maryhill State Park Archaeological Damage Assessment</i> Washington State Parks & Recreation Commission	82,403	16,810	Pending	
Scott, Shane Facilities Management	<i>Methow Forest Rehabilitation Project, North Methow Phase; Troutlodge Hatchery Monitoring; Blue Mountains</i> Washington State Department of Fish & Wildlife	106,342	27,279	Funded	93,994
Scott, Shane Facilities Management	<i>Roslyn Historic Cemetery Inventory</i> City of Roslyn/U.S. Department of the Interior	9,000	2,475	Funded	9,000
Scott, Shane Facilities Management	<i>Suncadia Bike Path (Ducktown Garbage Dump)</i> New Suncadia, LLC	10,900	2,562	Funded	10,900
Scott, Shane Facilities Management	<i>Warren Cannery Archiving Project</i> U.S. Department of Agriculture, National Forest Service, Columbia River Gorge	1,500	386	Funded	1,500
<b>Total Business &amp; Financial Affairs</b>		<b>469,509</b>	<b>103,836</b>		<b>252,504</b>

**College of Arts & Humanities**

Name Department	Title Agency	Amount Requested	Indirect	Status	Amount Funded
Cummings, Bobby English	<i>Advanced Institute to Scale-Up College-Ready Writers</i> National Writing Project	20,000	811	Funded	20,000
Dormady, Jason History	<i>Guadalajara: The City Planned, Lived &amp; Performed, 1937-1972</i> National Endowment for the Humanities	5,985	-	Pending	
Dormady, Jason History	<i>Urban Planning &amp; Social Engineering in Guadalajara, Mexico, 1937-1972</i> National Endowment for the Humanities	6,000	-	Not Funded	

\*Denotes proposals pending at the end of 2014-15.

**College of Arts and Humanities (continued)**

Name Department	Title Agency	Amount Requested	Indirect	Status	Amount Funded
Easley, Roxanne History	<i>Sitka National Historic Park Scholars-in-Parks Project</i> U.S. Department of the Interior, National Parks Service	44,000	10,252	Funded*	44,000
Easley, Roxanne History	<i>Summer UFC President Support</i> United Faculty Central	4,000	200	Funded	4,000
Levine, Marilyn History	<i>Remembering Revolutionaries: Chinese Voices in the 20th Century, Year 1 of 2</i> National Endowment for the Humanities	99,510	22,918	Not Funded	
Vuong, Lily Philosophy & Religious Studies	<i>William G. Dever Archaeological Fellowship</i> The American Schools of Oriental Research	7,000	-	Not Funded	
<b>Total College of Arts &amp; Humanities</b>		<b>186,495</b>	<b>34,181</b>	<b>-</b>	<b>68,000</b>

**College of Education and Professional Studies**

Name Department	Title Agency	Amount Requested	Indirect	Status	Amount Funded
Ballard, Paul & Eric Hougan College of Education & Professional Studies	<i>PEAB Meeting Support (School Psychology, CTE B&amp;I Teacher, Administrator)</i> Washington State Professional Educator Standards Board	5,300	-	Funded	5,300
Ballard, Paul & Jesslyn Hollar College of Education & Professional Studies	<i>CWU's Alternative Route Mentor Teachers - 2016</i> Washington State Professional Educator Standards Board	11,500	-	Funded	13,500
Calahan, Scott & Charles Pringle Engineering Technologies, Safety & Construction Department	<i>STEM Guitar Building</i> Sinclair Community College	2,244	204	Funded*	7,701
Carrothers, Carol College of Education & Professional Studies	<i>Deaf Fiesta Support, 2016</i> Washington State Department of Social & Health Services	2,000	-	Funded	1,500
Carrothers, Carol College of Education & Professional Studies	<i>Disability Services, 2015-16</i> North Central Educational Service District	184,511	13,667	Funded	184,511
Claridge, Amy Family & Consumer Sciences	<i>Incredible Years Parent Training</i> Washington State Department of Social & Health Services	3,680	-	Pending	
Connolly, Jerry College of Education & Professional Studies	<i>Special Education Technology Center, 2015-16</i> Washington State Office of the Superintendent of Public Instruction	360,000	26,667	Funded	360,000
D'Acquisto, Leo Health Sciences	<i>Athletic Training Position</i> Ellensburg School District	10,643	-	Funded*	10,643

\*Denotes proposals pending at the end of 2014-15.

**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 &amp; without a History of Illiotibial Band Syndrome</i> American College of Sports Medicine (ACSM) Foundation	10,000	-	Pending	
Johnson, Craig; Roger Beardsley & Holly Johnson Engineering Technologies, Safety & Construction Department	<i>Evaluation &amp; Testing a Commercial Cokeless Reverberatory Furnace for Melting Iron</i> National Science Foundation	93,137	23,639	Not Funded	
Johnson, Craig; Roger Beardsley & Holly Johnson Engineering Technologies, Safety & Construction Department	<i>Evaluation &amp; Testing a Commercial Cokeless Reverberatory Furnace for Melting Iron</i> Splitvane Engineering/National Science Foundation	59,616	14,626	Pending	
Mace, Casey (Physical Education, School Health & Movement Studies) & Anne Johansen (Chemistry)	<i>Air Quality &amp; Respiratory Function in Rural Older Adults, Year 1 of 3</i> National Institutes of Health	155,890	27,883	Not Funded	
Pellett, Heidi Henschel & Alison McWeeny Physical Education, School Health & Movement Studies	<i>Project FITT: Funding to Improve Training &amp; Teaching to CWU Physical Education &amp; Physical Activity</i> National Education Association	5,000	-	Not Funded*	
Perez, Mark Physical Education, School Health & Movement Studies	<i>Future of Sex Education National Teacher Preparation for Sexuality Education Mini-Grant</i> Advocates for Youth	1,500	-	Funded	1,500
Pritchett, Kelly Health Sciences	<i>Vitamin D Supplementation on Health &amp; Performance in Athletes with a Spinal Cord Injury</i> Paralyzed Veterans of America	36,150	2,678	Not Funded	
Rajendran, Sathyanarayanan Engineering Technologies, Safety & Construction Department	<i>Safe &amp; Innovative Work Best Practices for Mechanical Crafts Booklet</i> Washington State Department of Labor & Industries	199,944	18,177	Pending	
Spybrook, Janet Language, Literacy & Special Education	<i>Compass 2 Campus</i> Yakima Valley Community Foundation	5,000	-	Funded	5,000
White, Nathan; Martin Bagaya; Chester Claar; Jackson Muhirwe & Raymond Spencer Information Technology & Administrative Management	<i>Cyber Range &amp; Forensics Lab at CWU</i> National Science Foundation	48,944	13,676	Not Funded	
<b>Total College of Education &amp; Professional Studies</b>		<b>1,195,059</b>	<b>141,217</b>	<b>-</b>	<b>589,655</b>

\*Denotes proposals pending at the end of 2014-15.

## College of the Sciences

Name Department	Title Agency	Amount Requested	Indirect	Status	Amount Funded
Arango, Clay (Biological Sciences) & Carey Gazis (Geological Sciences)	<i>Transport &amp; Fate of Emerging Contaminants in Surface &amp; Ground Waters of an Economically Important River in Washington State</i> U.S. Department of the Interior, U.S. Geological Survey	29,519	-	Not Funded*	
Arango, Clay (Biological Sciences) & Jennifer Lupton (Geography)	<i>EAGER: Contribution of Outbreak Insect Herbivore Ecological Subsidies to Stream Food Webs, Year 2 of 2</i> National Science Foundation	70,822	17,273	Funded	70,822
Beck, Daniel & Gabriel Stryker Biological Sciences	<i>SOBRE MEXICO: Student Opportunities for Biological Research in Mexico, Year 1 of 3</i> National Science Foundation	82,464	8,127	Funded	82,463
Belofsky, Gil & Blaise Dondji Chemistry	<i>Anthelmintic Activity of Plant Natural Products Against the Hookworm <i>Ancylostoma ceylanicum</i>, Year 2 of 3</i> National Institutes of Health	139,628	25,749	Funded	139,628
Bohrson, Wendy Geological Sciences	<i>Collaborative Research: Crustal Modulation of Flood Basalts—Integrating Field, Geochemical &amp; Computational Data for the Steens Basalt, Year 2 of 3</i> National Science Foundation	83,403	19,163	Funded	83,403
Bohrson, Wendy Geological Sciences	<i>Collaborative Research: Crustal Modulation of Flood Basalts—Integrating Field, Geochemical &amp; Computational Data for the Steens Basalt, Year 3 of 3</i> National Science Foundation	24,901	5,849	Pending	
Bohrson, Wendy Geological Sciences	<i>Collaborative Research: Thermodynamics of Magma Mixing, Year 1 of 3</i> National Science Foundation	51,751	9,159	Funded	51,751
Chueh, Chinmei Yvonne Mathematics	<i>Computational Probability Reasoning (CPR) Software Creation, Year 1 of 5</i> National Science Foundation	162,108	18,521	Not Funded	
Dechaine, Jennifer Biological Sciences	<i>CWU Teach: An Innovative Undergraduate STEM Teacher Preparation Program, Year 1 of 3</i> Washington State Opportunity Scholarship	1,019,278	132,950	Funded	919,413
Dechaine, Jennifer Biological Sciences	<i>Evolutionary Genomics of Abiotic Stress Resistance in Wild &amp; Cultivated Sunflower, Year 1 &amp; 2 of 4</i> University of Georgia/National Science Foundation	14,863	3,311	Funded*	45,633
Dechaine, Jennifer Biological Sciences	<i>Evolutionary Genomics of Abiotic Stress Resistance in Wild &amp; 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	Pending	
Egger, Anne Geological Sciences	<i>Collaborative Research: The ABRT Project: Active Basin &amp; Range Tectonics North of the Mendocino Triple Junction, Year 1 of 4</i> National Science Foundation	85,953	13,108	Not Funded*	
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	Pending	

\*Denotes proposals pending at the end of 2014-15.

**College of the Sciences (continued)**

Name Department	Title Agency	Amount Requested	Indirect	Status	Amount Funded
Egger, Anne Geological Sciences	<i>InTeGrate: Interdisciplinary Teaching of Geoscience for a Sustainable Future, Year 5 of 5</i> Carleton College/National Science Foundation	24,681	4,728	Funded	24,681
Egger, Anne Geological Sciences	<i>REU Site: Hazards and Risks of Climate Change in the Pacific Northwest, Year 1 of 3</i> National Science Foundation	132,342	3,246	Funded	123,522
Ely, Lisa & Breanyn MacInnes Geological Sciences	<i>Collaborative Research : Application of Paleoseismic Evidence &amp; Tsunami Simulations to Quantify Megathrust Rupture Characteristics, South-Central Chile, Year 1 of 3</i> National Science Foundation	83,554	15,251	Pending	
Ernest, Kristina; Paul James; Jason Irwin & Steve Wagner Biological Sciences	<i>Low-Mobility Wildlife Monitoring for the I-90 Snoqualmie Pass East Project, Year 1 of 2</i> Washington State Department of Transportation	248,198	41,366	Funded	248,198
Fallscheer, Cassandra & Darci Snowden Physics	<i>MRI: Acquisition of a Spectrograph for the CWU Research Telescope, Year 1 of 3</i> National Science Foundation	229,528	9,851	Pending	
Gabriel, Anthony Geography	<i>Monitoring of Yakama Nation Riparian Restoration Sites, Phase 7</i> Yakama Nation	30,006	4,807	Funded*	30,066
Gabriel, Anthony & David Cordner Geography	<i>DNR Washington State Eelgrass Mapping/Light Penetration Monitoring Project, Years 1 &amp; 2 of 2</i> Washington State Department of Natural Resources	199,350	28,903	Funded	199,350
Gazis, Carey (Geological Sciences), Clay 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	134,993	2,300	Not Funded*	
Gazis, Carey (Geological Sciences), Clay 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	Pending	
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	21,570	-	Pending	
Hackenberger, Steve Anthropology	<i>Tryon Creek Archaeological Collection Project</i> U.S.D.A., National Forest Service, Wallowa-Whitman National Forest	2,500	833	Pending	
Huerta, Audrey Geological Sciences	<i>Supplement: Sustainability for Livelihood, Values &amp; the Environment, Year 1 of 3</i> National Science Foundation	30,415	1,803	Funded	30,415
Huerta, Audrey & Alison Scoville Science Honors	<i>Hearst Summer Undergraduate Research Fellowships for Low-Income, Hispanic &amp; Native American NSF S-STEM Scholars at CWU, Years 1-3 of 3</i> CWU Foundation/William Randolph Hearst Foundation	100,000	-	Funded	100,000
Huerta, Audrey & Alison Scoville Science Honors	<i>SOLVE (Sustainability for Our Livelihood, Values, &amp; Environment), Year 3 of 5</i> National Science Foundation	162,768	3,773	Funded	162,768

\*Denotes proposals pending at the end of 2014-15.

**College of the Sciences (continued)**

Name Department	Title Agency	Amount Requested	Indirect	Status	Amount Funded
Huerta, Audrey & Paul Winberry Geological Sciences	<i>Collaborative Research: POLENET - Antarctica: Investigating Links Between Geodynamics &amp; Ice Sheets - Phase 2, Year 4 of 5</i> National Science Foundation	51,478	11,461	Funded	51,478
Huerta, Audrey & Paul Winberry Geological Sciences	<i>West Antarctic Ice Sheet Geophysical Research, Year 1 of 5</i> Penn State University/National Science Foundation	105,887	28,402	Not Funded*	
Hunt, Vanessa Science Education	<i>Values &amp; Visions: A Perspective on Contemporary Bird Artists of the Pacific Northwest</i> National Endowment for the Humanities	6,000	-	Not Funded	
Irwin, Jason Biological Sciences	<i>Cold Tolerance, Diapause &amp; Survival of Brown Marmorated Stink Bugs, Year 1 of 2</i> Washington Tree Fruit Research Commission	34,800	-	Funded	34,800
Johansen, Anne Chemistry	<i>Collaborative Research: RISE - Research-Based Interdisciplinary STEM Education, Year 2 of 3</i> National Science Foundation	32,395	7,932	Funded	32,395
Johansen, Anne Chemistry	<i>Collaborative Research: RISE - Research-Based Interdisciplinary STEM Education, Year 3 of 3</i> National Science Foundation	33,816	8,328	Pending	
Johansen, Anne Chemistry	<i>Monitoring &amp; Studying the Effects of Atmospheric Deposition &amp; Other Water Quality Threats to Parks in the North Coast &amp; Cascade Network, Year 2 of 4</i> U.S. Department of the Interior, National Parks Service, Mt. Rainier National Park	9,000	1,340	Funded	9,000
Johansen, Anne (Chemistry) & Pamela McMullin-Messier (Sociology)	<i>Kittitas Community Air Research Experiment - KitCARE, Year 1 of 3</i> Washington State University/U.S. Environmental Protection Agency	98,726	30,887	Not Funded*	
Kaspari, Susan Geological Sciences	<i>Collaborative Research: Constraining Black Carbon Direct Radiative Forcing: Improved Characterization of Aerosol Spectral Absorption &amp; Black Carbon Scavenging, Year 1 of 3</i> National Science Foundation	75,178	19,994	Pending	
Klyve, Dominic Mathematics	<i>Collaborative Research: RUI: Transforming Instruction in Undergraduate Mathematics via Primary Historical Sources, Year 1 of 5</i> National Science Foundation	73,396	9,043	Funded*	73,396
Klyve, Dominic Mathematics	<i>Computational Number Sense in Middle School Mathematics, Year 1 of 2</i> Adelphi University/National Science Foundation	39,982	9,022	Not Funded*	
Klyve, Dominic Mathematics	<i>The Effect of Improvements in Cross-Sectional &amp; Endosonographic Imaging Led to Fewer Laparotomies &amp; Patients Scheduled for Whipple Procedures across the Nation</i> Aurora Health Care	2,500	-	Funded	2,500
Kovalerchuk, Boris Computer Science	<i>RUI: Lossless Multidimensional Data Visual Representation &amp; Knowledge Discovery, Year 1 of 3</i> National Science Foundation	159,901	37,324	Not Funded	
Kurtz, Martha (College of the Sciences), Eric Cheney (Sociology), Judith Hennessy (Sociology), Anne Johansen (Chemistry) & Elizabeth Lee (Organization Effectiveness)	<i>CWU ADVANCES: Managing Change to Support Women STEM Faculty</i> National Science Foundation	543,615	95,179	Pending	

\*Denotes proposals pending at the end of 2014-15.

**College of the Sciences (continued)**

Name	Title	Amount	Indirect	Status	Amount
Department	Agency	Requested			Funded
Kurtz, Martha (College of the Sciences), Jennifer Dechaine (Biological Sciences), Pamela McMullin-Messier (Sociology), Dominic Klyve (Mathematics) & Lucinda Carnell (Biological Sciences)	<i>Transforming Undergraduate STEM Education at CWU through a Community-Based Research STEM Academy, Year 1 of 5</i> National Science Foundation	260,631	45,391	Not Funded*	
Kurtz, Martha (College of the Sciences), 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	Pending	
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 2 of 3</i> National Science Foundation	89,831	13,906	Funded*	89,831
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	Pending	
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	Pending	
Lee, Jeffrey Geological Sciences	<i>Geologic Mapping along the Gundry Hills Fault, Walker Lane Belt, Nevada: Documenting the Magnitude &amp; Time of Dextral Slip</i> U.S. Department of the Interior, U.S. Geological Survey	17,492	2,668	Pending	
Lillquist, Karl Geography	<i>Promoting Place-Based Learning &amp; Geographic Literacy in Central Washington Through Development of a Yakima County Historical Airphoto Database</i> National Council for the Social Studies	2,481	-	Pending	
MacInnes, Breanyn Geological Sciences	<i>Collaborative Research: The 2015 Taan Fiord Landslide Tsunami: An Interdisciplinary Study of Cause &amp; Effect</i> National Science Foundation	17,568	2,781	Funded	17,568
MacInnes, Breanyn Geological Sciences	<i>Tsunamis in the Strait of Juan de Fuca &amp; Northern Puget Sound—Differentiating Cascadia from Non-Cascadia Sources</i> U.S. Department of the Interior, U.S. Geological Survey	73,323	10,146	Pending	
Mattinson, Chris Geological Sciences	<i>Scanning Electron Microscope to Support Natural Science Research</i> CWU Foundation/M J Murdock Charitable Trust	291,000	-	Funded	291,000
Mattinson, Chris Geological Sciences	<i>Thermal Structure of a Long-Lived Ultrahigh-Pressure Terrane, North Qaidam, Northwest China, Year 3 of 3</i> National Science Foundation	77,536	16,491	Funded	77,536
McCutcheon, Patrick Anthropology	<i>2017 CWU Lopez Island CRM Archaeology Field School Work Plan</i> U.S. Department of the Interior, Bureau of Land Management	18,845	3,883	Pending	
Melbourne, Timothy Geological Sciences	<i>A READI Real-time GPS Analysis Center, Year 2 of 3</i> National Aeronautics & Space Administration	195,701	53,245	Funded	195,701

\*Denotes proposals pending at the end of 2014-15.



**College of the Sciences (continued)**

Name	Title	Amount	Indirect	Status	Amount
Department	Agency	Requested			Funded
Melbourne, Timothy Geological Sciences	<i>Deploying NASA NGSS-Based Technology at NOAA's Tsunami Warning Centers</i> National Aeronautics & Space Administration	21,938	3,863	Pending	
Melbourne, Timothy Geological Sciences	<i>Geodasy Advancing Geosciences &amp; Earthscope, Year 3 of 5</i> UNAVCO, Inc./National Science Foundation	124,100	33,945	Funded*	124,100
Melbourne, Timothy Geological Sciences	<i>Incorporating rtGNSS into ShakeAlert: Collaborative with Central Washington University, UNAVCO Inc., Year 1 of 2</i> U.S.D.I., U.S. Geological Survey	827,217	67,672	Pending	
Melbourne, Timothy Geological Sciences	<i>Real-Time Operations of the Pacific Northwest Geodetic Array, Year 2 of 5</i> U.S. Department of the Interior, U.S. Geological Survey	99,960	26,599	Funded	99,960
Melbourne, Timothy & Walter Szeliga Geological Sciences	<i>EarthCube Building Blocks: Collaborative Proposal: Deploying Multi-Facility Cyberinfrastructure in Commercial &amp; Private Cloud-Based Systems, Year 1 of 2</i> IRIS/UNAVCO, Inc./National Science Foundation	92,133	25,717	Pending	
Oursland, Mark (Mathematics), Keith Salyer (TEACH) & Susan Connolly (TEACH)	<i>Rural Alliance Partnership for Inquiry &amp; Development (RAPID), Year 1 of 3</i> Washington State University/National Science Foundation	45,400	12,673	Pending	
Palmquist, Bruce Physics	<i>Enhancing Physics Teacher Education at CWU, Supplement</i> American Physical Society	9,390	1,862	Funded	9,390
Palmquist, Bruce (Physics/Science Education), Vanessa Hunt (Science Education), Janet Shiver (Mathematics), Allyson Rogan-Klyve (Science Education) & Ian Loverro (Curriculum, Supervision & Education Leadership)	<i>CWU Robert Noyce Scholarship Program - Phase II, Year 1 of 5</i> National Science Foundation	161,756	14,613	Not Funded	
Piacsek, Andrew Physics	<i>Acoustic Study of Proposed Wenas Firing Range</i> Washington State Department of Fish & Wildlife	11,130	1,987	Pending	
Pratt-Sitaula, Beth Geological Sciences	<i>OSU-NSF Earthscope</i> Oregon State University/National Science Foundation	2,200	641	Funded	2,200
Pratt-Sitaula, Beth & Breanyn MacInnes Geological Sciences	<i>Earthquake &amp; Tsunami Science &amp; Preparedness Workshop for Middle-School Science Teachers in Puget Sound Region</i> CWU Foundation/Puget Sound Energy Foundation	2,709	-	Funded	2,709
Radeke, Mary Psychology	<i>What Can a Smile Tell Us? Exploration of Facial Expressions in the Laboratory</i> National Education Association	2,000	-	Pending	
Snowden, Darci Physics	<i>Enhancing NASA-Related Research &amp; Educational Activities at CWU, Year 1 of 3</i> Washington NASA Space Grant Consortium/University of Washington	10,000	-	Funded*	10,000
Snowden, Darci Physics	<i>Enhancing NASA-Related Research &amp; Educational Activities at CWU, Year 1 of 2</i> Washington NASA Space Grant Consortium/University of Washington	10,000	-	Pending	

\*Denotes proposals pending at the end of 2014-15.

**College of the Sciences (continued)**

<b>Name</b>	<b>Title</b>	<b>Amount</b>			<b>Amount</b>
<b>Department</b>	<b>Agency</b>	<b>Requested</b>	<b>Indirect</b>	<b>Status</b>	<b>Funded</b>
Snowden, Darci Physics	<i>Enhancing NASA-Related Research &amp; Educational Activities at CWU, Year 2 of 3</i> Washington NASA Space Grant Consortium/University of Washington	10,000	-	Pending	
Snowden, Darci Physics	<i>Magnetospheric Ionization &amp; Energy Deposition in Titan's Upper Atmosphere, Year 3 of 4</i> National Aeronautics & Space Administration	63,474	13,548	Pending	
Snowden, Darci Physics	<i>Northwest Earth &amp; Space Science Pipeline (NESSP) "Ignite, Innovate, Inspire: Launching NASA's Next Generation", Year 1 of 5</i> Washington NASA Space Grant Consortium/University of Washington	30,000	3,368	Funded*	30,000
Swain, P. Whitney Chemistry	<i>Production &amp; Testing of Possible Antimicrobial Agents from Chemical Breakdown Products of Lasalocid A</i> National Institutes of Health	60,266	10,266	Not Funded*	
Tester, Griff Sociology	<i>Older Lesbian &amp; Gay Adults, Social Network Types &amp; the Meaning of a Quality Network</i> American Psychological Foundation	15,000	-	Pending	
Wieggers, Brandy Mathematics	<i>Building Communities of Practices in Math Circles &amp; Informal Mathematics Education</i> Colorado University, Denver/National Science Foundation	34,313	7,345	Not Funded	
Winberry, Paul Geological Sciences	<i>Collaborative Research: Grounding Line Dynamics: Crary Ice Rise Revisited, Year 1 of 3</i> National Science Foundation	59,508	15,193	Funded*	51,405
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	Pending	
Winberry, Paul Geological Sciences	<i>Collaborative Research: In Situ Monitoring of Basal Processes of Whillans Ice Stream, Year 1 of 4</i> National Science Foundation	9,822	2,112	Not Funded*	
Winberry, Paul & Audrey Huerta Geological Sciences	<i>Collaborative Research: MRI Development of Geophysical Earth Observatory for Ice Covered Environments (GEOICE), Year 3 of 3</i> National Science Foundation	160,367	16,711	Funded	160,367
Winberry, Paul & Audrey Huerta Geological Sciences	<i>Collaborative Research: Multiscale Seismic Imaging of the Structure and Uplift Mechanism of the Central Transantarctic Mountains, Year 1 of 4</i> National Science Foundation	97,192	21,682	Not Funded*	
<b>Total College of the Sciences</b>		<b>8,155,127</b>	<b>1,182,917</b>		<b>3,677,449</b>

\*Denotes proposals pending at the end of 2014-15.

## 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 4 of 5</i> U.S. Department of Education	220,000	12,445	Funded	220,000
Findley, Carol Retired, Senior & Volunteer Program	<i>Health Care Insurance Outreach, Education &amp; Advocacy, Year 1 of 2</i> Washington State Office of the Insurance Commissioner	16,038	-	Funded*	16,038
Findley, Carol Retired, Senior & Volunteer Program	<i>Health Care Insurance Outreach, Education &amp; Advocacy, Year 2 of 2</i> Washington State Office of the Insurance Commissioner	16,360	-	Pending	
Findley, Carol Retired, Senior & Volunteer Program	<i>RSVP of Kittitas County, 2016-17, Year 2 of 3</i> Corporation for National & Community Service	59,772	2,039	Funded	59,772
Findley, Carol Retired, Senior & Volunteer Program	<i>RSVP Program Support, Year 3 of 3</i> Combined Federal Campaign	4,346	-	Pending	
Findley, Carol Retired, Senior & Volunteer Program	<i>SAIL Classes</i> Aging & Long Term Care	2,522	-	Withdrawn	
Findley, Carol Retired, Senior & Volunteer Program	<i>WARSVDP RSVP Program Support, 2015-16, Year 1 of 2</i> Washington State Department of Commerce	14,882	-	Funded	14,882
Findley, Carol Retired, Senior & Volunteer Program	<i>WARSVDP RSVP Program Support, 2016-17, Year 2 of 2</i> Washington State Department of Commerce	15,797	-	Pending	
Guggino, Julie Research & Sponsored Programs	<i>CWU GEAR UP: Project MOSAIC2, Year 5 of 7</i> U.S. Department of Education	1,632,000	55,484	Funded	1,632,000
Guggino, Julie Research & Sponsored Programs	<i>Project SOAR2: Success and Opportunity through Affordability, Rigor &amp; Relevance, Year 2 of 7</i> U.S. Department of Education	2,593,600	92,479	Funded	2,484,800
<b>Total School of Graduate Studies &amp; Research</b>		<b>4,575,317</b>	<b>162,447</b>		<b>4,427,492</b>

\*Denotes proposals pending at the end of 2014-15.