

**Central Washington University**  
**Annual Report**  
**of**  
**External Grant and Contract Activities**  
**for**  
**July 1, 2008–June 30, 2009**

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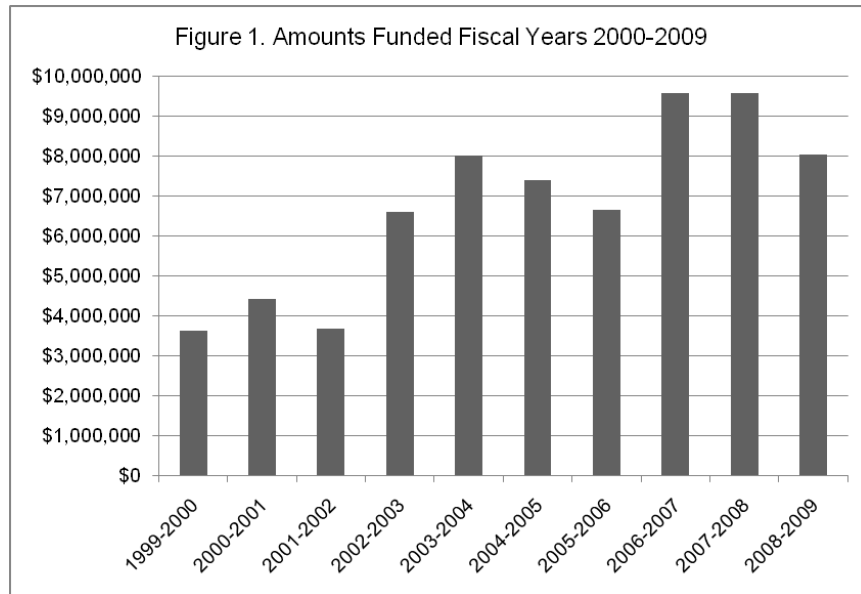
**Graduate Studies and Research**

Compiled by Julie Guggino  
September 2009

## Summary of External Report of Grants and Contracts Activity for July 1, 2008–June 30, 2009

Grants funded during this fiscal year totaled \$8,017,827. Between July 1, 2008 and June 30, 2009, a total of 136 grants were submitted to external funding sources (109 last year) by 76 different faculty and staff (64 last year) requesting a total of \$14,548,796 (\$9,235,705 last year). Of these 136, by June 30, 2008, 70 were funded, 19 were not funded, and 47 were still pending. Fifteen grants submitted prior to July 1, 2008, but funded during this fiscal year, are included in the \$8,017,827.

Figure 1 shows grant award activity over the past ten years. The amount funded this year is 16.2% less than last year's award amount of \$9,563,276.



Notable awards include

- James Cook (History), Hong Xiao (Sociology), and Richard Mack's (Economics) *Negotiations & Impacts: Great Western Development, Rural Peasants, & Water Policy across China's Loess Plateau* was funded by the National Science Foundation for \$128,737 for the first of three years. Undergraduates selected from a national pool of applicants work closely with faculty mentors to conduct research in China and write up their findings on campus during an intensive summer program.
- Tim Melbourne's (Geological Sciences) *NSF Plate Boundary Observatory Analysis Center--Continuing Operations* was funded for \$152,085 for the first of five years by UNAVCO/National Science Foundation. The funding will enable the CWU Geodesy group to become one of two data analysis centers for the emerging Plate Boundary Observatory. Tectonic phenomena collected from a multitude of tectonic arrays in North America will be analyzed using the existing infrastructure of the CWU Geodesy Laboratory.
- W. Warner Wood, Steve Hackenberger, Pat McCutcheon, and Kathleen Barlow (Anthropology); Naomi Petersen (Education); and James Huckabay (Geography) received \$11,080 from Puget Sound Energy for their project *Harnessing the Wind's Power, Tracking the Wild Horse Wind Farm Story*, which will be incorporated into the wind farm's visitor's center.
- Lisa Ely (Geological Sciences) received \$20,000 from the National Geographic Society for her proposal, *Darwin & the Great 1835 Tsunami of Concepcion, Chile: Relying on Geology & History to Avoid Future Catastrophes*. Her research entailed traveling to Chile to study the geographical history of the 1835 tsunami.

Figure 2 shows the distribution of funding support among the different funding sources. Federal agencies continue to provide the largest share of funded awards.

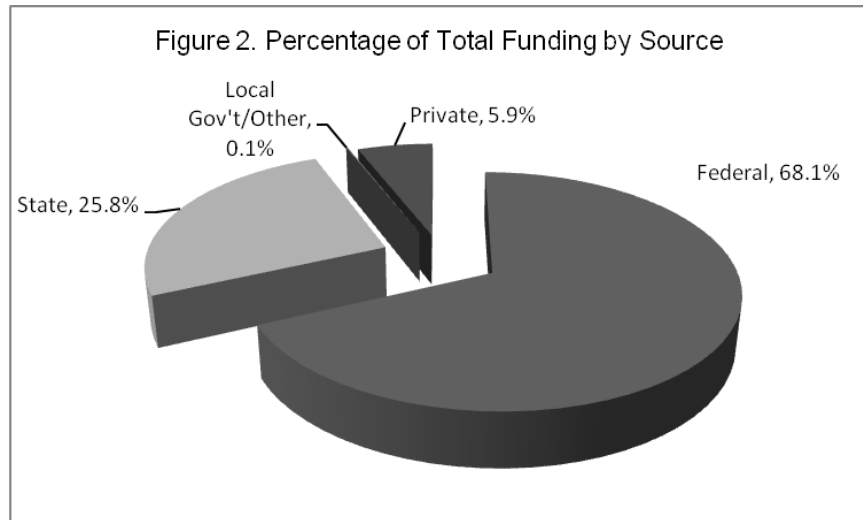


Figure 3 displays the percentage of funding by federal agency. These percentages also include federal flow-through monies and reflect annual award amounts, not total award amounts. Funding from the U.S. Department of Education totaling \$2,520,333 accounts for 46.1% of CWU's federal funding, followed by funding from the National Science Foundation totaling \$1,805,817 and from the U.S. Department of the Interior totaling \$529,512, accounting for 33.1% and 9.7%, respectively.

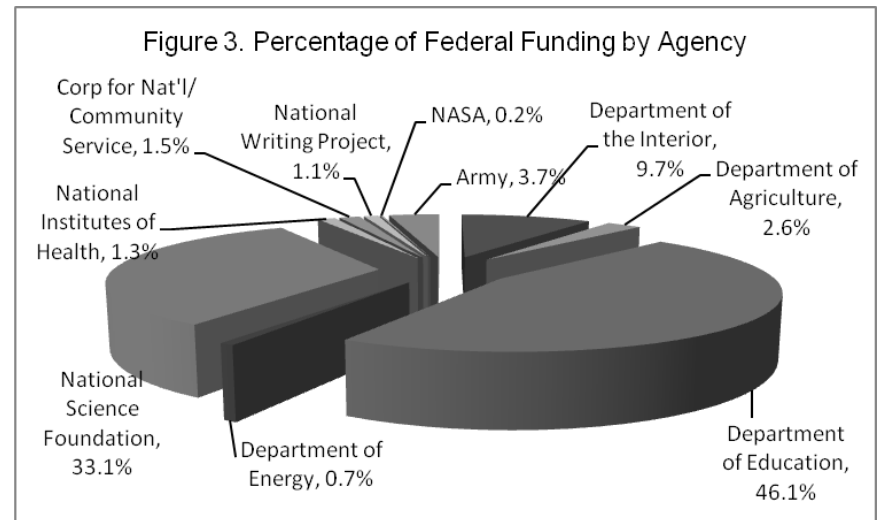
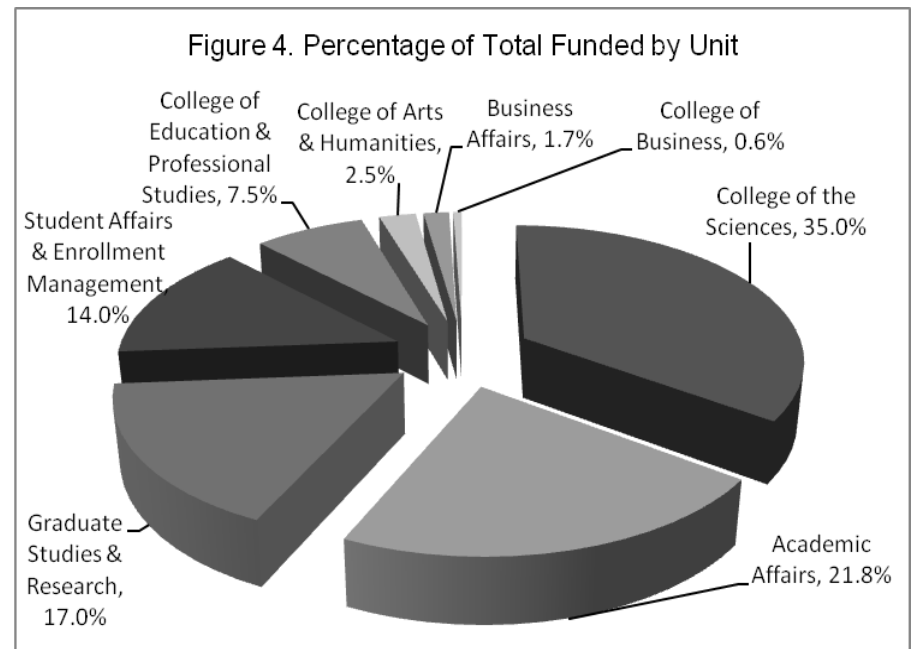


Figure 4 illustrates the proportion of funds generated by the various units on campus. As a unit, Academic Affairs generated 84.3% of the total amount funded; Student Affairs and Enrollment Management and Business Affairs generated 14.0% and 1.7%, respectively.



## Summary of Grant Activity between July 1, 2008 and June 30, 2009 by Units

### Number of Grants Submitted

	Grants Submitted July 1, 2008--June 30, 2009			Grants Submitted Prior to July 1, 2008*		
	Funded	Not Funded	Pending	Funded	Not Funded	Pending
Academic Affairs	11	0	7	1	0	0
Business Affairs	2	0	3	0	0	0
College of Arts & Humanities	5	2	6	0	0	0
College of Business	1	0	0	1	0	0
College of Education & Professional Studies	5	1	3	2	0	0
College of the Sciences	31	13	25	9	3	0
Graduate Studies and Research	10	3	2	1	0	0
Student Affairs & Enrollment Management	5	0	1	1	2	0
<b>Total Number of Grants Submitted</b>	<b>70</b>	<b>19</b>	<b>47</b>	<b>15</b>	<b>5</b>	<b>0</b>
<b>Grand Total of Number of Grants Submitted</b>		<b>136</b>			<b>20</b>	

\*These grants were still pending when the 2007-08 Annual Report was prepared.

### Dollar Amounts of Grants Submitted

	Grants Submitted July 1, 2008--June 30, 2009			Grants Submitted Prior to July 1, 2008*		
	Funded	Not Funded	Pending	Funded	Not Funded	Pending
Academic Affairs	1,746,242	0	794,558	2,908	0	0
Business Affairs	138,500	0	581,740	0	0	0
College of Arts & Humanities	199,795	73,000	607,924	0	0	0
College of Business	15,000	0	0	29,510	0	0
College of Education & Professional Studies	548,978	30,000	408,458	49,752	0	0
College of the Sciences	2,088,253	1,883,596	2,865,130	717,611	110,307	0
Graduate Studies and Research	1,221,632	44,000	44,410	140,000	0	0
Student Affairs & Enrollment Management	1,110,088	0	147,492	9,558	331,766	0
<b>Total Dollar Amount of Grants Submitted</b>	<b>7,068,488</b>	<b>2,030,596</b>	<b>5,449,712</b>	<b>949,339</b>	<b>442,073</b>	<b>0</b>
<b>Grand Total of Dollar Amount of Grants Submitted</b>		<b>14,548,796</b>			<b>1,391,412</b>	

\*These grants were still pending when the 2007-08 Annual Report was prepared.

**Academic Affairs**

<b>Name Department</b>	<b>Title Agency</b>	<b>Amount Requested</b>	<b>Indirect</b>	<b>Status</b>	<b>Amount Funded</b>
Hackenberger, Steve Anthropology	<i>Damon Fuels Reduction</i> Warm Springs Geo Visions	15,808	3,922	Funded	15,808
Hackenberger, Steve Anthropology	<i>Archaeological Inventory, Evaluation, &amp; Testing Investigations of Twenty Sites at Yakima Training Center, Yakima and Kittitas Counties, Washington</i> ICI Services, LLC/U.S. Army	204,050	53,288	Funded	204,050
Hackenberger, Steve Anthropology	<i>Cultural Initiation &amp; Investigation of the Proposed Spokane Hill Ski Expansion, Spokane, Washington</i> SE Group	15,694	3,894	Funded*	2,908
Hedrick, David; Richard Mack; Chad Wassell Continuing Education	<i>Comprehensive Analysis of the Impacts of Cherry Production upon Three Economic Regions in the Northwest</i> Washington State Fruit Commission	17,400	2,610	Pending	
Kaufman, David Multimedia Technology & Instructional Support	<i>To Preserve &amp; Protect Our Future, Years 1-3 of 3</i> U.S. Department of Education	119,190	-	Funded	119,190
Launius, Michael International Programs	<i>APU Aviation Maintenance Management Program</i> American Pacific University	285,810	-	Pending	
McFarlane, Neil Academic Achievement Programs	<i>Student Support Services, Year 4 of 5</i> U.S. Department of Education	282,055	20,893	Funded	282,055
Orvald, Tucker Continuing Education	<i>Cultural Resources Survey for the Overlook Fire</i> U.S. Department of the Interior, Fish & Wildlife Service	59,739	12,485	Funded	59,739
Pellet, Tracy Academic Affairs	<i>eLearning Support for Rural Regional Relationships, Year 1 of 5</i> U.S. Department of Education	156,848	-	Pending	
Pellet, Tracy Academic Affairs	<i>BS Interdisciplinary Studies--Social Sciences/BS Social Services, Year 4 of 7</i> Pierce Community College/State Board for Community & Technical Colleges	300,000	-	Pending	
Pellet, Tracy Academic Affairs	<i>BS Interdisciplinary Studies--Social Sciences, Year 1 of 3</i> Everett Community College/Skagit Valley College	133,875	-	Funded	133,875

\*From prior year.

**Academic Affairs, continued**

<b>Name Department</b>	<b>Title Agency</b>	<b>Amount Requested</b>	<b>Indirect</b>	<b>Status</b>	<b>Amount Funded</b>
Pellet, Tracy Academic Affairs	<i>BA of Elementary Education, Year 3 of 7</i> Pierce Community College/State Board for Community & Technical Colleges	300,000	-	Funded	300,000
Pellet, Tracy Academic Affairs	<i>BAS - Information Technology &amp; Administrative Management, Year 3 of 4</i> Everett Community College	137,025	-	Funded	137,025
Pellet, Tracy Academic Affairs	<i>BAS - Information Technology &amp; Administrative Management, Year 3 of 7</i> Edmonds Community College/State Board for Community & Technical Colleges	472,000	-	Funded	472,000
Quitadamo, Ian, Science Education; Aaron Montgomery, Mathematics	<i>CAT National Dissemination: Assessing &amp; Improving Learning</i> Tennessee Technological University/National Science Foundation	2500	0	Pending	
Scott, Shane Continuing Education	<i>Chiliwist Fence Cultural Survey</i> Washington State Department of Fish & Wildlife	2,000	323	Pending	
Scott, Shane Continuing Education	<i>Sinlahekin Cultural Survey</i> Washington State Department of Fish & Wildlife	30,000	6,804	Pending	
Scott, Shane Continuing Education	<i>Wenas Creek CWU Field School,</i> U.S.D.I. Bureau of Reclamation	20,000	4,652	Funded	20,000
Scott, Shane Continuing Education	<i>Warren Cannery Cultural Research Consultation</i> U.S.D.I., U.S. Forest Service, Columbia River Gorge Scenic Area	2,500	326	Funded	2,500
<b>Totals</b>		<b>2,553,994</b>	<b>109,197</b>		<b>1,749,150</b>

**Business Affairs**

<b>Name Department</b>	<b>Title Agency</b>	<b>Amount Requested</b>	<b>Indirect</b>	<b>Status</b>	<b>Amount Funded</b>
Nahan, Pat Facilities Management	<i>Green Power Generation</i> Washington State Office of Financial Management	120,000	-	Funded	120,000

**Business Affairs, continued**

<b>Name Department</b>	<b>Title Agency</b>	<b>Amount Requested</b>	<b>Indirect</b>	<b>Status</b>	<b>Amount Funded</b>
Nahan, Pat Facilities Management	<i>Processed Biomass Fuel Feasibility Study</i> U.S. Department of Agriculture	95,000	-	Pending	
Rittereiser, Steve Campus Police	<i>Campus/Community Emergency Response Team, Years 1 &amp; 2 of 2</i> U.S. Department of Justice	291,855	53,157	Pending	
Rittereiser, Steve Campus Police	<i>COPS Hiring Recovery Program, Years 1-3 of 3</i> U.S. Department of Justice	194,885	-	Pending	
Rittereiser, Steve Campus Police	<i>Auto Theft Prevention Program</i> Washington Association of Sheriffs & Police Chiefs	18,500	-	Funded	18,500
<b>Totals</b>		<b>720,240</b>	<b>53,157</b>		<b>138,500</b>

**College of Arts & Humanities**

<b>Name Department</b>	<b>Title Agency</b>	<b>Amount Requested</b>	<b>Indirect</b>	<b>Status</b>	<b>Amount Funded</b>
Altman, Matthew Philosophy	<i>Human Nature &amp; the Tragic</i> National Endowment for the Humanities	23,000	-	Not Funded	
Amutabi, Maurice History	<i>Strategic Planning for Collaboration between CWU &amp; Masinde Muliro University of Science &amp; Technology, Kenya</i> Higher Education Development	50,000	-	Not Funded	
Betts, Timothy Music	<i>Kairos Festival &amp; Lyceum</i> National Endowment for the Arts	10,000	-	Pending	
Breedlove, Lois Communication	<i>The Bridges Program: Breaking Boundaries, Year 1 of 3</i> U.S. Department of Justice	115,860	11,522	Pending	
Breedlove, Lois Communication	<i>Mentoring Students at Wapato High School</i> Northwest Community Action Center	5,005	-	Funded	6,408

**College of Arts & Humanities, continued**

<b>Name Department</b>	<b>Title Agency</b>	<b>Amount Requested</b>	<b>Indirect</b>	<b>Status</b>	<b>Amount Funded</b>
Breedlove, Lois Communication	<i>Bridges Broadcasting: Voices Aloud, Years 1, 2 &amp; 3 of 3</i> National Endowment for the Arts	100,000	10,000	Pending	
Cook, James, Asia Studies; Hong Xiao, Sociology; Richard Mack, Economics	<i>Negotiations &amp; Impacts: Great Western Development, Rural Peasants, &amp; Water Policy across China's Loess Plateau, Year 1 of 3</i> National Science Foundation	128,737	9,000	Funded	128,737
Cummings, Bobby English	<i>Central Washington Writing Project, 2009-10</i> National Writing Project	46,000	-	Funded	46,000
Cummings, Bobby English	<i>Central Washington Writing Project, 2008-09</i> National Writing Project	12,000	-	Funded	12,000
Garcia, Gilberto, Latino & Latin American Studies; Stefanie Wickstrom, Foreign Languages	<i>Mexico 1810-1910-2010</i> U.S. Department of State	326,664	412,829	Pending	
Knirck, Jason History	<i>A Cult of No Personality: W.T. Cosgrave &amp; the Irish Free State</i> National Endowment for the Humanities	50,400	-	Pending	
Mitchell, Cynthia Communication	<i>A Good Liberty Tree Site</i> Liberty Tree Foundation	5,000	-	Pending	
Smith, Bret Music	<i>String Project Site, Year 2 of 4</i> National String Project Consortium	6,650	-	Funded	6,650
<b>Totals</b>		<b>879,316</b>	<b>443,351</b>		<b>199,795</b>



**College of Business**

<b>Name Department</b>	<b>Title Agency</b>	<b>Amount Requested</b>	<b>Indirect</b>	<b>Status</b>	<b>Amount Funded</b>
Mack, Richard; Tim Ditmer Economics	<i>Financial Feasibility &amp; Potential Economic Impact of a Kittitas County Horse Park</i> Washington State Horse Park Foundation	15,000	1,482	Funded	15,000
Mack, Richard Economics	<i>Economic Impact Analysis: Desert Claim Wind Project for Kittitas County</i> enXco	25,000	3,120	Funded*	29,510
<b>Totals</b>		<b>40,000</b>	<b>4,602</b>		<b>44,510</b>

\*From prior year.

**College of Educational & Professional Studies**

<b>Name Department</b>	<b>Title Agency</b>	<b>Amount Requested</b>	<b>Indirect</b>	<b>Status</b>	<b>Amount Funded</b>
Bennett, Virginia Nutrition, Exercise & Life Sciences	<i>Clinical &amp; Behavioral Outcomes of a Family-Based Type 2 Diabetes Risk-Reduction Lifestyle Intervention &amp; Social Support Program Among Rural Latino Youth in Central Washington, Years 1 &amp; 2 of 2</i> Pacific Northwest University of Health Sciences/Life Sciences Discovery Fund	145,294	26,250	Pending	
Bowers, Jan Family & Consumer Sciences	<i>Making a Difference with Service Learning Across Curricula &amp; Throughout the Community</i> Washington State Higher Education Coordinating Board	33,000	-	Funded	33,000
Carrothers, Carol CEPS	<i>Disability Services, 2008-09</i> North Central E.S.D.	179,801	13,318	Funded	179,701
Connolly, Gerald CEPS	<i>Special Education Technology Center, 2008-09</i> Washington State Superintendent of Public Instruction	300,277	22,243	Funded	300,277
DePaepe, James Education	<i>Through the LENS: Building Success in Science--Ensuring Success in Math &amp; Literacy, Year 2 of 3</i> Yakima School District	24,752	952	Funded*	24,752

\*From prior year.

**College of Education & Professional Studies, continued**

<b>Name Department</b>	<b>Title Agency</b>	<b>Amount Requested</b>	<b>Indirect</b>	<b>Status</b>	<b>Amount Funded</b>
Doolittle, Nan Family & Consumer Sciences	<i>The First Five Years: A Parent Guide to a Child's Well-Being</i> Washington State Department of Early Learning	30,000	980	Not Funded	
Madlem, Melody Nutrition, Exercise & Life Sciences	<i>Social Justice &amp; Social Determinants of Health: Don't Hide Behind a Smokescreen</i> Educational Service District 112, Vancouver	12,000	-	Funded	3,000
Papadopoulos, Charilaos Nutrition, Exercise & Life Sciences	<i>Strength Training Program for Older Adults, Year 1 of 2</i> Life Sciences Discovery Fund	183,164	10,000	Pending	
Pappas, James Education	<i>Identifying Undeclared Majors for Teaching &amp; Government Careers Related to Mathematics, Science &amp; Special Education</i> Washington State Higher Education Coordinating Board	33,000	-	Funded	33,000
Paulk, Amber, Family & Consumer Sciences; Duane Dowd, Psychology; Jan Bowers, Family & Consumer Sciences	<i>CWU's Early Learning Childhood Center &amp; TRIO Collaboration Project for Infant &amp; Toddler Care, Year 1 of 4</i> U.S. Department of Education	80,000	4,432	Pending	
Petersen, Naomi Education	<i>PSE Educational Outreach Project</i> Puget Sound Energy	25,000	6,202	Funded*	25,000
<b>Totals</b>		<b>1,046,288</b>	<b>84,377</b>		<b>598,730</b>

\*From prior year.

**College of the Sciences**

<b>Name Department</b>	<b>Title Agency</b>	<b>Amount Requested</b>	<b>Indirect</b>	<b>Status</b>	<b>Amount Funded</b>
Arango, Clay, Biological Sciences/Geography; Carey Gazis, Geological Sciences	<i>Influence of Large Wood Addition on Nitrogen Transformations at the Surface Water/Groundwater Interface</i> Washington State Water Research Center	27,500	-	Pending	

**College of the Sciences, continued**

<b>Name Department</b>	<b>Title Agency</b>	<b>Amount Requested</b>	<b>Indirect</b>	<b>Status</b>	<b>Amount Funded</b>
Arango, Clay, Biological Sciences/Geography; Allen Sullivan, Geography	<i>Swauk Creek Wood Addition &amp; Assessment, Year 1 of 2</i> Salmon Recovery Funding Board	167,095	-	Not Funded	
Belofsky, Gil Chemistry	<i>Use of Natural Products to Enhance the Activity of Current Treatments for Multi-Drug Resistant Tuberculosis</i> Gates Foundation	90,682	-	Not Funded	
Black, Chris Mathematics	<i>CWU Robert Noyce Scholarship Program, Year 1 of 5</i> National Science Foundation	31,729	-	Not Funded*	
Boersma, Stuart Mathematics	<i>Quantitative Reasoning in the Contemporary World, Years 2 &amp; 3 of 3</i> National Science Foundation	27,228	7,928	Funded	27,228
Boersma, Stuart; Michael Lundin; Aaron Montgomery Mathematics	<i>Transition Mathematics Achievement Partnership (TMAP), Year 1 of 5</i> National Science Foundation	576,259	44,487	Pending	
Boersma, Stuart Mathematics	<i>Yakima Valley Transition Math Project, Year 3 of 3</i> Educational Service District 105, Yakima	26,000	1,923	Funded	26,000
Bohrson, Wendy Geological Sciences	<i>Collaborative Research: Testing Models that Describe the Origin of Compositional Diversity of Subduction Zone Magmatism, Aeolian Islands, Year 2 of 3</i> National Science Foundation	80,270	12,295	Funded	80,270
Bohrson, Wendy, Geological Sciences; Michael Braunstein, Physics; Lisa Ely, Geological Sciences; Martha Kurtz, Science Education; Andrew Piacsek, Physics	<i>Recruiting &amp; Retaining the Next Generation of STEM Professionals, Year 2 of 5</i> National Science Foundation	191,788	22,927	Funded*	191,788
Brammer, Robert; Scott Schaeffle Psychology	<i>Elementary School Counseling Partner Support</i> Educational Service District 105, Yakima	15,000	-	Funded	15,000
Carnell, Lucinda Biological Sciences	<i>RIG: Characterization of Serotonergic Pathways Involved in Behavioral Adaptation, Year 1 of 2</i> National Science Foundation	104,329	21,142	Funded*	104,657

\*From prior year.

**College of the Sciences, continued**

<b>Name Department</b>	<b>Title Agency</b>	<b>Amount Requested</b>	<b>Indirect</b>	<b>Status</b>	<b>Amount Funded</b>
Chamberland, Stephen Chemistry	<i>Quest to Develop a Greener, More General Catalytic, Asymmetric Aziridination Reaction Using Recyclable Hypervalent Iodine Reagents, Years 1 &amp; 2 of 2</i> Research Corporation	44,990	-	Not Funded	
Chamberland, Stephen Chemistry	<i>Using HOMO-Raising Chiral Auxiliaries to Engender Stereoselective Diels-Alder Reactions: Toward the Synthesis of Alkaloids Used in the Pharmacotherapy of Drug Addiction, Year 1 of 2</i> National Institutes of Health	155,452	30,452	Not Funded	
Chamberland, Stephen Chemistry	<i>Developing a Greener, More General Catalytic Asymmetric Aziridination Reaction Using Recyclable Iodine (III) Reagents, Year 1 of 2</i> American Chemical Society	29,000	-	Not Funded	
Diaz, Anthony Chemistry	<i>RUI: Investigation of Surface Loss Processes in Nano-Scale Luminescent Materials, Year 1 of 3</i> National Science Foundation	36,424	7,849	Funded	36,424
Diaz, Anthony Chemistry	<i>Energy Flow &amp; Trapping Processes in Luminescent Materials Under Vacuum Ultraviolet Excitation, Year 3 of 3</i> American Chemical Society	16,000	-	Funded	16,000
Dondji, Blaise; Ian Quitadamo; Gabrielle Stryker Biological Sciences	<i>A Proposal to Improve the Cellular/Molecular Biology Curriculum at CWU, Year 1 of 2</i> National Science Foundation	178,311	8,005	Pending	
Ely, Lisa Geological Sciences	<i>Holocene Shoreline Dynamics &amp; Geologic Records of Past Tsunamis in Southeastern India, Year 1 of 3</i> National Science Foundation	66,767	10,116	Not Funded	
Ely, Lisa Geological Sciences	<i>Darwin &amp; the Great 1835 Tsunami of Concepcion, Chile: Relying on Geology &amp; History to Avoid Future Catastrophes</i> National Geographic Society	20,000	-	Funded	20,000
Ely, Lisa Geological Sciences	<i>RUI &amp; Collaborative Research: Impact of Extrafluvial Events on River Valley Evolution, Year 3 of 3</i> National Science Foundation	48,460	11,145	Funded	48,460
Fabry-Asztalos, Levente Chemistry	<i>CAREER: Synthesis &amp; Study of Cyclic &amp; Straight-Chain Borinic Acids, Year 1 of 5</i> National Science Foundation	178,538	33,908	Not Funded	

**College of the Sciences, continued**

<b>Name Department</b>	<b>Title Agency</b>	<b>Amount Requested</b>	<b>Indirect</b>	<b>Status</b>	<b>Amount Funded</b>
Gabriel, Anthony Geography	<i>Pacific Northwest Regional Geographic Information System Technology Project</i> U.S. Department of Agriculture	129,237	-	Pending	
Gabriel, Anthony Geography	<i>Transportation Research: Task 1--Walla Walla, Grant, &amp; Franklin Counties</i> Washington State Department of Transportation	143,791	23,965	Funded	143,791
Gabriel, Anthony Geography	<i>Banks Lake Fishery Evaluation Project</i> Washington State Department of Ecology	44,285	7,381	Funded	44,285
Gabriel, Anthony Geography	<i>Ecological Characterization of Yakama Nation Riparian Restoration Sites on the Wapato Floodplain of the Yakima River Basin, Washington, Phase 3</i> Yakama Nation	29,975	4,785	Funded	29,975
Gazis, Carey; Beth Pratt-Sitaula Geological Sciences	<i>Supplement: New, GK-12: Yakima Watershed Activities to Enhance Research in Schools (Yakima WATERS), Year 2 of 2</i> National Science Foundation	50,765	2,860	Funded	50,765
Gazis, Carey, Geological Sciences; Martha Kurtz, Chemistry; Beth Pratt-Sitaula, Geological Sciences; Ian Quitadamo, Biological Sciences; Steven Wagner, Biological Sciences	<i>New, GK-12: Yakima Watershed Activities to Enhance Research in Schools (Yakima WATERS), Year 3 of 5</i> National Science Foundation	566,094	37,160	Funded	566,094
Ge, Yingbin Chemistry	<i>Fast Global Optimization of Passivated Silicon Nonoclusters using Genetic Algorithms, Years 1 &amp; 2 of 2</i> Research Corporation	37,000	-	Pending	
Ge, Yingbin Chemistry	<i>Theoretical Study of the Atomic Layer Deposition of Vanadium Oxide on Various Metal Oxide Surfaces, Year 1 of 2</i> American Chemical Society	34,501	-	Not Funded	
Hackenberger, Steve Anthropology	<i>Investigating Cultural Landscapes of the Yakama Nation Ceded Lands</i> Earthwatch Institute	16,800	-	Funded	16,800
Hackenberger, Steve Anthropology	<i>Collaborative Research: Purepecha Origins: Archaeology of Highland Michoacan Mexico, Year 1 of 3</i> National Science Foundation	159,111	23,154	Not Funded	

**College of the Sciences, continued**

<b>Name Department</b>	<b>Title Agency</b>	<b>Amount Requested</b>	<b>Indirect</b>	<b>Status</b>	<b>Amount Funded</b>
Hackenberger, Steve Anthropology	<i>Marmes Rockshelter Collection for the Walla Walla District U.S. Army Corps of Engineers</i> HDR Engineering	132,310	35,509	Funded	132,310
Hackenberger, Steve Anthropology	<i>Cultural Research Assessment &amp; Construction Monitoring</i> Triple L, LLC	15,557	3,860	Funded	15,557
Huerta, Audrey Geological Sciences	<i>Supplement: Collaborative Research: Thermochronologic &amp; Modeling Test for a Mesozoic West Antarctic Plateau</i> National Science Foundation	15,510	-	Pending	
Huerta, Audrey Geological Sciences	<i>Marie Byrd Land Data Analysis &amp; Geodynamic Modeling, Year 1 of 4</i> Pennsylvania State University/National Science Foundation	37,607	9,978	Funded	37,607
Huerta, Audrey Geological Sciences	<i>Collaborative Research: Thermochronologic &amp; Modeling Test for a Mesozoic West Antarctic Plateau, Year 1 of 3</i> National Science Foundation	77,314	6,583	Funded	77,314
Jackson, Gabriella Biological Sciences	<i>Collaborative Research: Effects of Biological &amp; Environmental Stressors on Zooxanthellae Production of DMSP, DMS, &amp; DMSO, Year 1 of 3</i> National Science Foundation	75,307	8,850	Not Funded	
Jackson, Michael Physics	<i>Enhancing NASA-Related Research &amp; Education Activities at CWU</i> Washington NASA Space Grant Consortium/University of Washington	20,000	-	Pending	
Jackson, Michael Physics	<i>High Resolution Spectroscopy of Stable Molecular Species &amp; Free Radicals, Year 1 of 3</i> National Science Foundation	60,142	7,070	Pending	
Jackson, Michael Physics	<i>Enhancing NASA-Related Research &amp; Education Activities at CWU</i> Washington National Aeronautics & Space Administration Space Grant Consortium/University of Washington	10,000	-	Funded*	10,000
James, Paul; Kris Ernest; Steve Wagner Biological Sciences	<i>I-90 Wildlife Monitoring Project</i> Washington State Department of Transportation	149,931	24,989	Pending	
Johansen, Anne Chemistry	<i>Acid Rain Analysis in Mt. Rainier National Park, Year 2 of 5</i> U.S.D.I., National Park Service, Mt. Rainier National Park	12,400	1,128	Funded	12,400

\*From prior year.

**College of the Sciences, continued**

<b>Name Department</b>	<b>Title Agency</b>	<b>Amount Requested</b>	<b>Indirect</b>	<b>Status</b>	<b>Amount Funded</b>
Johansen, Anne Chemistry	<i>RUI: Do DMS &amp; Isoprene Control Iron Bioavailability in Marine Aerosols?, Year 1 of 2</i> National Science Foundation	78,307	14,472	Funded*	78,307
Kurtz, Martha Science Education	<i>Kittitas County Environmental Health Education Curriculum Development Project, Years 1 &amp; 2 of 2</i> National Institutes of Health	223,562	55,552	Pending	
Kurtz, Martha, Science Education; Naomi Petersen, Education; Steve Jackson, Communication	<i>STEM Journeys, Year 1 of 5</i> National Science Foundation	606,238	102,986	Not Funded	
Lee, Jeffrey Geological Sciences	<i>Collaborative Research: Testing Channel-Flow Models Using Middle-Crustal Rocks of North Himalayan Gneiss Domes, Year 1 of 3</i> National Science Foundation	97,135	11,329	Funded*	97,135
Lillquist, Karl Geography	<i>Kittitas County Historical Airphoto Acquisition, Preservation &amp; Access Program</i> Kittitas County	5,000	-	Funded	5,000
Lipton, Jennifer Geography	<i>Collaborative Research: Integrated Assessment of 21st Century Changes in Tropical Andean Hydrology, Year 1 of 4</i> National Science Foundation	81,866	14,988	Pending	
Lorenz, Joseph Anthropology	<i>Integrated Primate Biomaterials &amp; Information Resource</i> National Science Foundation	153,228	1,727	Pending	
Lundin, Michael Mathematics	<i>College-Ready Mathematics Course, Year 1 of 3</i> Washington State Office of Superintendent of Public Instruction	435,275	56,775	Pending	
McCutcheon, Pat Anthropology	<i>2009 Saddle Mountain Archaeologic Work</i> U.S.D.I., Bureau of Land Management	9,000	1,174	Pending	
McCutcheon, Pat Anthropology	<i>2008 CRM Archaeology Field School: Lower Wenas Creek Study</i> U.S.D.I., Bureau of Reclamation	10,000	1,304	Funded*	10,000
Melbourne, Timothy Geological Sciences	<i>Delineating Future Cascadia Megathrust Rupture with Continuous GPS Recordings of Episodic Tremor &amp; Slip (ETS), Year 1 of 2</i> U.S.D.I., U.S. Geological Survey	40,671	9,074	Pending	

\*From prior year.

**College of the Sciences, continued**

<b>Name Department</b>	<b>Title Agency</b>	<b>Amount Requested</b>	<b>Indirect</b>	<b>Status</b>	<b>Amount Funded</b>
Melbourne, Timothy Geological Sciences	<i>Washington State Reference Network (WSRN), Year 3 of 3</i> U.S.D.I., U.S. Geological Survey	57,288	16,097	Funded	57,288
Melbourne, Timothy Geological Sciences	<i>Land Surface Monitoring at Cle Elum Science &amp; Research Facility Hatchery, Years 1-5 of 5</i> U.S. Department of Energy, Bonneville Power Administration	40,000	-	Funded	40,000
Melbourne, Timothy Geological Sciences	<i>National Science Foundation Plate Boundary Observatory Analysis Center-- Continuing Operations, Year 1 of 5</i> UNAVCO, Inc./National Science Foundation	152,085	42,195	Funded*	152,085
Oursland, Mark Mathematics	<i>Math 2.0: Teaching Math in a Technical World</i> University of Washington/Washington State Higher Education Coordinating Board	29,782	2,206	Pending	
Oursland, Mark Mathematics	<i>Excellence in Science &amp; Mathematics Teaching</i> Washington State Higher Education Coordinating Board	22,200	-	Funded	22,000
Oursland, Mark Mathematics	<i>U.S. TEDS-M Research Support</i> Michigan State University	2,250	-	Funded	2,600
Oursland, Mark Mathematics	<i>Excellence in Science &amp; Mathematics Teaching</i> Washington State Higher Education Coordinating Board	44,004	-	Funded	44,004
Pedersen, Lene Anthropology	<i>Land-Based, Social &amp; Ritual Ties of the Balinese State</i> <i>National Endowment for the Humanities</i>	50,400	-	Pending	
Pedersen, Lene Anthropology	<i>Land-Based, Social &amp; Ritual Structures of the Balinese State</i> Wenner-Gren Foundation for Anthropological Research, Inc.	22,900	-	Pending	
Pedersen, Lene Anthropology	<i>Social, Productive, &amp; Ritual Structures of the Balinese State, Year 1 of 4</i> National Science Foundation	60,538	12,634	Not Funded	
Pedersen, Lene Anthropology	<i>Social, Productive, &amp; Ritual Structures of the Balinese State, Year 1 of 3</i> National Science Foundation	29,888	6,423	Not Funded*	
Pratt-Sitaula, Beth Geological Sciences	<i>Collaborative Research: Teachers on the Leading Edge: Linking K-12 Earth Science Teachers to Earthscope, Year 2 of 3</i> National Science Foundation	81,775	-	Funded	81,775

\*From prior year.



**College of the Sciences, continued**

<b>Name Department</b>	<b>Title Agency</b>	<b>Amount Requested</b>	<b>Indirect</b>	<b>Status</b>	<b>Amount Funded</b>
Pratt-Sitaula, Beth Geological Sciences	<i>Insights into Himalayan Tectonics &amp; Active Structures from a Permanent GPS Network in Nepal, Year 1 of 4</i> National Science Foundation	215,377	16,087	Not Funded	
Pratt-Sitaula, Beth Geological Sciences	<i>Snow and Rainfall Dynamics in the Himalaya Using TRMM-PR, TRMM-TMI, &amp; MODIS Satellite Data, Year 1 of 4</i> National Aeronautics & Space Administration	48,690	2,977	Not Funded*	
Quitadamo, Ian, Biological Sciences/Science Education; James Johnson, Biological Sciences; Martha Kurtz, Science Education; Carin Thomas, Chemistry	<i>Building Faculty Capacity &amp; Student Critical Thinking to Improve American STEM Competitiveness, Year 1 of 2</i> National Science Foundation	95,146	15,875	Pending	
Raubeson, Linda Biological Sciences	<i>Collaborative Research: Gymnosperms on the Tree of Life: Resolving the Phylogeny of Seed Plants, Year 4 of 4</i> National Science Foundation	47,768	11,334	Funded	47,768
Rivera, Dion Chemistry	<i>In Situ Spectroscopic Studies of the Behavior of Polyelectrolyte/Surfactant Mixtures at the Water/TiO<sub>2</sub> Interface Using Attenuated Total Internal Reflection Fourier Transform Infrared Spectroscopy (ATR-FTIR) &amp; Multivariate Least Squares Data Analysis, Year 2 of 3</i> The Petroleum Research Fund, American Chemical Society	21,700	-	Funded	21,700
Rubin, Charles Geological Sciences	<i>Collaborative Research: A Paleoseismic Record of Great Earthquakes on the Sunda Subduction Megathrust, Northern Sumatra, Year 2 of 3</i> National Science Foundation	88,929	15,514	Funded	88,929
Rubin, Charles; Lisa Ely; Beth Pratt-Sitaula Geological Sciences	<i>Collaborative Research MRI: Acquisition of Terrestrial Laser Scanning Systems for Earth Sciences Research, Year 1 of 2</i> National Science Foundation	213,656	5,050	Pending	
Rubin, Charles Geological Sciences	<i>Collaborative Research: A Paleoseismic Record of Great Earthquakes on the Sunda Subduction Megathrust, Northern Sumatra, Year 1 of 3</i> National Science Foundation	92,354	14,840	Funded*	62,559

\*From prior year.

**College of the Sciences, continued**

<b>Name Department</b>	<b>Title Agency</b>	<b>Amount Requested</b>	<b>Indirect</b>	<b>Status</b>	<b>Amount Funded</b>
Sheeran, Lori; Mary Lee Jensvold Anthropology	<i>Bridges to the Baccalaureate: Linking YVCC &amp; CWU, Year 3 of 3</i> National Institutes of Health	70,909	5,815	Funded	70,909
Uebelacker, Morris Geography	<i>CWU Native American Fellowship Program, 2007-08, Year 2 of 2</i> U.S.D.I., Bureau of Reclamation	210,000	-	Funded	210,000
Winberry, Paul Geological Sciences	<i>Collaborative Research: Geophysical Study of Ice Stream Stick-Slip Dynamics, Year 1 of 3</i> National Science Foundation	127,489	27,902	Pending	
Winberry, Paul; Audrey Huerta Geological Sciences	<i>Collaborative Research: Study of Outlet Glacier Dynamics &amp; Erosion: Mulock Glacier, Antarctica, Year 1 of 3</i> National Science Foundation	137,860	26,327	Pending	
Winberry, Paul Geological Sciences	<i>Collaborative Research: Glacier Seismicity &amp; Its Relationship to Basal Movement, Year 1 of 3</i> National Science Foundation	20,645	4,545	Pending	
Wood, W. Warner Anthropology	<i>CWU Museum of Culture &amp; Environment Preservation Assessment</i> National Endowment for the Humanities	4,760	-	Pending	
Wood, W. Warner, Anthropology; Naomi Petersen, Education; Steve Hackenberger, Anthropology; Pat McCutcheon, Anthropology; James Huckabay, Geography; Kathleen Barlow, Anthropology	<i>Harnessing the Wind's Power, Tracking the Wild Horse Wind Farm Story</i> Puget Sound Energy	11,080	1,775	Funded*	11,080
Zayac, Ryan Psychology	<i>Development of a Transition Program for College Students with an Autism Spectrum Disorder</i> Autism Speaks	25,000	-	Pending	
<b>Totals</b>		<b>7,694,214</b>	<b>906,426</b>		<b>2,805,864</b>

\*From prior year.

**Graduate Studies & Research**

<b>Name Department</b>	<b>Title Agency</b>	<b>Amount Requested</b>	<b>Indirect</b>	<b>Status</b>	<b>Amount Funded</b>
Brown, Greg Center for Spatial Information	<i>Development of a Web-Based Public Participation GIS Prototype</i> U.S. Department of the Interior, Forest Service/Green Mountain College	5,500	917	Funded	5,500
Findley, Carol Retired & Senior Volunteer Program	<i>Maintaining &amp; Increasing Senior Involvement</i> Washington Association of Retired Senior Volunteer Program Directors/Washington State Department of Community, Trade & Economic Development	27,358	-	Pending	
Findley, Carol Retired & Senior Volunteer Program	<i>SHIBA Counseling, Community Education &amp; Outreach Activities, Years 1 &amp; 2 of 2</i> Washington State Office of the Insurance Commissioner	17,052	-	Pending	
Findley, Carol Retired & Senior Volunteer Program	<i>Senior Falls Prevention Program for Kittitas County</i> Washington Health Foundation	4,000	-	Not Funded	
Findley, Carol Retired & Senior Volunteer Program	<i>Senior Falls Prevention Program for Kittitas County</i> Legends Casino	5,000	-	Not Funded	
Findley, Carol Retired & Senior Volunteer Program	<i>SHIBA Counseling, Community Education &amp; Outreach Activities, Years 1 &amp; 2 of 2</i> Washington State Office of the Insurance Commissioner	5,758	-	Funded	30,907
Findley, Carol Retired & Senior Volunteer Program	<i>RSVP of Kittitas County, 2009</i> Corporation for National Service	72,539	2,131	Funded	72,539
Findley, Carol Retired & Senior Volunteer Program	<i>Operation Take Charge: Check It, Lock It &amp; Shred It</i> Kittitas County Law & Justice Council	1,000	-	Funded	1,000
Findley, Carol Retired & Senior Volunteer Program	<i>Fall Prevention Partnership &amp; Coalition Development</i> Washington State Department of Health	35,000	14,368	Not Funded	
Fouts, Roger OGSR	<i>CWU McNair Scholars Program, Year 2 of 4</i> U.S. Department of Education	220,000	12,652	Funded	220,000

**Graduate Studies & Research, continued**

<b>Name Department</b>	<b>Title Agency</b>	<b>Amount Requested</b>	<b>Indirect</b>	<b>Status</b>	<b>Amount Funded</b>
Gabriel, Anthony Center for Spatial Information	<i>Pacific Northwest Regional Geographic Information System Technology Project</i> U.S. Department of Agriculture	139,991	-	Funded*	140,000
Gomez-Vilchis, Veronica The Bridges Project	<i>Thomas Jefferson High School Outreach &amp; Mentoring Project</i> Federal Way School District	2,000	-	Funded	2,000
Gomez-Vilchis, Veronica The Bridges Project	<i>Ephrata High School Outreach &amp; Mentoring Project</i> Ephrata School District	2,996	-	Funded	2,996
Guggino, Julie, OGSR; Lois Breedlove, Communication; Julie Grinolds, OGSR	<i>Enhancing College-Readiness for Students from Low-Income Families in Washington's Okanogan Valley, Year 3 of 3</i> College Spark	80,690	-	Funded	80,690
Guggino, Julie OGSR	<i>Okanogan Valley CWU GEAR UP Program, Year 4 of 6</i> U.S. Department of Education	796,000	57,481	Funded	796,000
Jensvold, Mary Lee CHCI	<i>Visitor Effect in Zoo-Living Chimpanzees</i> Animal Welfare Institute	10,000	-	Funded	10,000
<b>Totals</b>		<b>1,424,884</b>	<b>87,549</b>		<b>1,361,632</b>

\*From prior year.

**Student Affairs & Enrollment Management**

<b>Name Department</b>	<b>Title Agency</b>	<b>Amount Requested</b>	<b>Indirect</b>	<b>Status</b>	<b>Amount Funded</b>
Anderson, Lorinda Civic Engagement Center	<i>Students in Service Mini-Grant</i> Washington Campus Compact, Western Washington University	2,000	-	Funded	2,000
Anderson, Lorinda Civic Engagement Center	<i>Central to the Community Congressional District Action Team</i> Washington Campus Compact, Western Washington University	9,558	-	Funded*	9,558

\*From prior year.

**Student Affairs & Enrollment Management, continued**

<b>Name Department</b>	<b>Title Agency</b>	<b>Amount Requested</b>	<b>Indirect</b>	<b>Status</b>	<b>Amount Funded</b>
Arteaga, Mateo SAEM	<i>HECB CAMP Supplement, 2007-08, Year 2 of 2</i> Washington State Higher Education Coordinating Board	5,000	-	Funded	5,000
Arteaga, Mateo SAEM	<i>Central Washington University College Assistance Migrant Program, Year 3 of 5</i> U.S. Department of Education	418,065	30,968	Funded	418,065
Arteaga, Mateo SAEM	<i>Educational Opportunity Center, Year 2 of 4</i> U.S. Department of Education	263,047	19,484	Funded	263,047
Arteaga, Mateo SAEM	<i>Central Washington University High School Equivalency Program, Year 3 of 5</i> U.S. Department of Education	421,976	31,185	Funded	421,976
Charlton, Janie, Early Childhood Learning Center; Katrina Whitney, Center for Student Empowerment; Patricia Gross, Family & Consumer Sciences	<i>Increasing Access to Child Care on the CWU Campus, Years 1 &amp; 2 of 2</i> Washington State Higher Education Coordinating Board	38,000	-	Not Funded*	
Easlick, Andrea Wellness Center	<i>Partners in Sexual Violence Prevention, Years 1-3 of 3</i> U.S. Department of Justice	293,766	-	Not Funded*	
Farmer, Gail Wellness Center	<i>Prevention of High-Risk Drinking I First-Year Students: A Web-Based Approach, Year 1 of 2</i> U.S. Department of Education	147,492	17,241	Pending	
<b>Totals</b>		<b>1,598,904</b>	<b>98,878</b>		<b>1,119,646</b>

\*From prior year.