

**The University of Toledo
Office of Research Services**

Detail of Awards According to Academic Department

Start FY: 1996
End FY: 1996

Start Date: 7/1/95
End Date: 6/30/96

<i>RNUM</i>	<i>Researcher(s)</i>	<i>Role</i>	<i>Project Title</i>	<i>Sponsor</i>	<i>Sponsor Award \$</i>	<i>(Sponsor Ind. C. \$)</i>	<i>Other Source \$</i>	<i>UT Contrib \$</i>	<i>Total Award</i>
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The College of Arts and Sciences

Department of Art

7084	Orloff, Deborah	PI	Clement Gallery Funding For Jane Calvin	Arts Midwest	\$1,000	\$0	\$0	\$0	\$1,000
<i>Summary for Department of Art (1 award)</i>									
Sum					\$1,000	\$0	\$0	\$0	\$1,000
Percent					0.01%	0.00%	0.00%	0.00%	0.01%

Department of Biology

6812	Glatzer, Louis	PI	Identification of the E. Coli Source of Contamination At Maumee Bay State Park: A Preliminary Study	Lucas County Board of Health	\$1,010	\$0	\$0	\$0	\$1,010
6670	Gottgens, Johan	PI	Long-term Habitat Changes in the Winous Point Marshes, Ohio: A 120 Year Record of Maps and Aerial Photographs	Winous Point	\$3,500	\$0	\$0	\$704	\$4,204

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7034	Johnson, Keith	PI	Development of a Tumor Diagnostic Kit	Ohio Board of Regents	\$27,000	\$0	\$0	\$0	\$27,000
6421	Komuniecki, Richard	PI	Volatile Acid Formation in Parasitic Helminths. Research Supplement Minority Research Assistantship.	National Institutes of Health	\$8,874	\$2,866	\$0	\$1,437	\$10,311
6757	Komuniecki, Richard	PI	Volatile Acid Formation in Parasitic Helminths	National Institutes of Health	\$148,731	\$39,809	\$0	\$0	\$148,731
6437	Shemshedini, Lirim	PI	Androgen Effects Mediated By AR and Proto-Oncoproteins	National Institutes of Health	\$82,374	\$18,312	\$37,841	\$5,948	\$126,163
6734	Sinsabaugh, Robert	PI	Assessing Humic Inhibition of Microbial Processes in Aquatic Systems	National Science Foundation	\$5,000	\$0	\$0	\$0	\$5,000
6800	Tramer, Elliot	PI	Effect of Drawdown On Passerine Nest Predation in Marshes	Ohio Department of Natural Resources	\$4,238	\$0	\$0	\$9,020	\$13,258
6434	Wheelock, Margaret	PI	Aspects of Cadherin/Catenin Complexes	National Institutes of Health	\$189,490	\$42,364	\$0	\$23,078	\$212,568
5739	Wheelock, Margaret	PI	Cell Growth Regulation and Adhesion	University of Pennsylvania	\$85,642	\$11,335	\$0	\$5,856	\$91,498
<i>Summary for Department of Biology (10 awards)</i>									
Sum					\$555,859	\$114,686	\$37,841	\$46,043	\$639,743
Percent					5.05%	12.35%	12.99%	1.69%	4.56%

Department of Chemistry

6828	Carter, Barbara	PI	Undergraduate Research Support	Parke-Davis	\$3,000	\$0	\$0	\$0	\$3,000
6913	Gano, James	PI	OBOR Investment Fund Award: Ohio Crystallography Consortium at Toledo	Ohio Board of Regents	\$815,000	\$0	\$0	\$0	\$815,000
7032	Gano, James	PI	Twisted Stilbenes: New Materials For Optics Application	Ohio Board of Regents	\$35,975	\$0	\$0	\$0	\$35,975

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6898	Giolando, Dean	PI	Organoindium Precursors For Indium Tin Oxide	Libbey-Owens-Ford	\$42,000	\$11,225	\$0	\$1,437	\$43,437
6911	Giolando, Dean	PI	Supplement To Organoindium Precursors For Indium Tin Oxide	Libbey-Owens-Ford	\$9,294	\$2,941	\$0	\$2,874	\$12,168
6856	Guo, Hua	PI	Theoretical Study of Photodissociation Dynamics in the Gaseous and Condensed Phases	National Science Foundation	\$60,000	\$15,095	\$0	\$15,656	\$75,656
6689	Guo, Hua	PI	Multidimensional Dynamics of Photochemistry On Metal Surfaces	American Chemical Society Petroleum Research Fund	\$50,000	\$0	\$0	\$27,685	\$77,685
6267	Pinkerton, Alan	PI	Upgrade of An X-Ray Crystallography Laboratory	Ohio Board of Regents	\$75,000	\$0	\$0	\$75,000	\$150,000
7041	Pinkerton, Alan	PI	Crystallography Program	Ohio Board of Regents	\$100,000	\$0	\$0	\$0	\$100,000
6565	Pinkerton, Alan	PI	Experimental Charge Densities and Electrostatic Potentials in Energetic Materials	Office of Naval Research	\$86,691	\$20,490	\$0	\$20,265	\$106,956
6286	Pinkerton, Alan	PI	Upgrade of An X-Ray Crystallography Laboratory	Office of Naval Research	\$160,100	\$0	\$0	\$0	\$160,100

Summary for Department of Chemistry (11 awards)

Sum					\$1,437,060	\$49,751	\$0	\$142,917	\$1,579,977
Percent					13.06%	5.36%	0.00%	5.24%	11.27%

Department of Economics

6704	Keith, Kristen	PI	Job Search, Mobility and the Gender Wage Gap	Upjohn Institute for Employment Research	\$24,445	\$0	\$0	\$5,162	\$29,607
6645	Lesage, James	PI	Developing Short-Run Labor Market Forecasting Models	Ohio Bureau of Employment Services	\$16,815	\$0	\$0	\$6,345	\$23,160
7297	Weiss, Steven	PI	Facility Approval Project: Research Component	Ohio Department of Education	\$56,100	\$5,100	\$0	\$12,001	\$68,101

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<i>Summary for Department of Economics (3 awards)</i>									
Sum					\$97,360	\$5,100	\$0	\$23,508	\$120,868
Percent					0.88%	0.55%	0.00%	0.86%	0.86%

Department of English

6859	Barden, Thomas	PI	American Culture and the Cold War: A Conference	Ohio Humanities Council	\$1,500	\$0	\$500	\$19,330	\$21,330
6892	Wikander, Matthew	PI	The Fangs of Malice: Hypocrisy, Sincerity, and Acting	The Newberry Library	\$800	\$0	\$0	\$0	\$800
<i>Summary for Department of English (2 awards)</i>									
Sum					\$2,300	\$0	\$500	\$19,330	\$22,130
Percent					0.02%	0.00%	0.17%	0.71%	0.16%

Department of Geography and Planning

6037	Muraco, William	PI	Global Changes in Local Places	Association of American Geographers	\$56,637	\$13,221	\$0	\$53,441	\$110,078
6758	Reid, Neil	PI	University of Toledo and the City of Toledo Department of Neighborhoods	City of Toledo	\$27,000	\$0	\$0	\$24,022	\$51,022
6866	Reid, Neil	PI	A Guide To Toledo Neighborhoods (Internship With City of Toledo and Comerica Bank	Comerica Bank	\$8,800	\$0	\$0	\$10,031	\$18,831
7018	Reid, Neil	PI	Graduate Student Internship Agreement Between University of Toledo Department of Geography and Planning and Urban Affairs Center	University of Toledo	\$0	\$0	\$0	\$0	\$0
6702	Reid, Neil	PI	Graduate Student Internship Agreement Between the University of Toledo and the Fair Housing Center	Fair Housing Center	\$7,000	\$0	\$0	\$7,603	\$14,603

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6700	Reid, Neil	PI	Graduate Student Internship Agreement Between the University of Toledo and the Department of Neighborhoods	City of Toledo	\$3,000	\$0	\$0	\$2,868	\$5,868
6692	Reid, Neil	PI	Graduate Student Internship Agreement Between the University of Toledo and the Lucas County Auditor	Lucas County Auditor	\$8,400	\$0	\$0	\$9,698	\$18,098
6857	Reid, Neil	PI	Graduate Student Internship Agreement Between the University of Toledo and the City of Toledo Department of Neighborhoods	City of Toledo	\$4,235	\$0	\$0	\$4,866	\$9,101
6691	Reid, Neil	PI	Graduate Student Internship Agreement Between the University of Toledo and TMACOG	Toledo Metropolitan Area Council of Governments	\$8,400	\$0	\$0	\$9,698	\$18,098
6817	Reid, Neil	PI	Business Development Plan For the Dorr Street Corridor From Westwood To Richards Road	Dana Corporation	\$5,000	\$0	\$0	\$5,227	\$10,227
7016	Reid, Neil	PI	Graduate Student Internship Agreement Between the University of Toledo Department of Geography and Planning and the GIS Center	University of Toledo	\$0	\$0	\$0	\$0	\$0
6863	Reid, Neil	PI	Graduate Student Internship Agreement Between UT Department of Geography and Planning and UT Maintenance Services	University of Toledo	\$0	\$0	\$0	\$0	\$0
7026	Reid, Neil	PI	Graduate Student Internship Agreement Between the University of Toledo Department of Geography and Planning and Centerior Energy	Centerior Energy	\$2,200	\$0	\$0	\$2,530	\$4,730
<i>Summary for Department of Geography and Planning (13 awards)</i>									
Sum					\$130,672	\$13,221	\$0	\$129,984	\$260,656
Percent					1.19%	1.42%	0.00%	4.76%	1.86%

Department of Geology

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7038	Martin-Hayden, James	PI	Pesticide Transport, Water Balance, and Geochemical Characterization of the Blue Creek Watershed	Ohio Board of Regents	\$22,018	\$0	\$0	\$0	\$22,018
6209	Spongberg, Alison	PI	Analysis of Pesticide Transport Pathways and Degradation in Engineered Wetlands	U.S. Department of Agriculture	\$80,000	\$8,091	\$0	\$35,213	\$115,213
6778	Stierman, Donald	PI	Positioning and Mapping Instruments For Environmental Science Majors	National Science Foundation	\$13,950	\$0	\$0	\$13,950	\$27,900
<i>Summary for Department of Geology (3 awards)</i>									
Sum					\$115,968	\$8,091	\$0	\$49,163	\$165,131
Percent					1.05%	0.87%	0.00%	1.80%	1.18%

Department of History

7132	Britton, Diane	PI	Public History Internship Agreement Between the University of Toledo Department of History and the Historic Woodlawn Cemetery	Historic Woodlawn Cemetery	\$1,000	\$0	\$0	\$477	\$1,477
7059	Messer-Kruse, Timoth	PI	"The Yankee International: Marxism and the American Reform Tradition, 1831-1876	Radcliffe College	\$700	\$0	\$0	\$0	\$700
6875	Wilcox, Larry	PI	Lessons and Legacies IV Conference	Holocaust Educational Foundation	\$200	\$0	\$0	\$0	\$200
<i>Summary for Department of History (3 awards)</i>									
Sum					\$1,900	\$0	\$0	\$477	\$2,377
Percent					0.02%	0.00%	0.00%	0.02%	0.02%

Department of Mathematics

6103	Carlson, Dean	PI	Dynamic Multiagent Optimization: Deterministic and Stochastic Systems	National Science Foundation	\$10,140	\$0	\$0	\$0	\$10,140
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6837	Lesh, Kathryn	PI	Travel To Algebraic Topology Conference	Association of Women In Math	\$1,200	\$0	\$0	\$0	\$1,200

Summary for Department of Mathematics (2 awards)

Sum					\$11,340	\$0	\$0	\$0	\$11,340
Percent					0.10%	0.00%	0.00%	0.00%	0.08%

Department of Physics and Astronomy

7045	Cheng, Song	PI	Upgrade of the University of Toledo's Heavy Ion Accelerator Lab	Ohio Board of Regents	\$40,000	\$0	\$0	\$0	\$40,000
6826	Compaan, Alvin	PI	High Efficiency Thin Film Cadmium Telluride Based Solar Cells - Yr. 3	National Renewable Energy Laboratory	\$132,000	\$36,598	\$0	\$0	\$132,000
6942	Compaan, Alvin	PI	Optimization of Laser Scribing For Thin Film Pv - Year 2	National Renewable Energy Laboratory	\$130,000	\$18,259	\$0	\$23,141	\$153,141
6824	Ellis, David	PI	Research Experiences For Undergraduates in Physics and Astronomy At the University of Toledo	National Science Foundation	\$50,750	\$0	\$0	\$49,007	\$99,757
6794	Federman, Steven	PI	Oscillator Strengths For Ultraviolet Atomic Transitions	NASA Headquarters	\$67,000	\$15,356	\$0	\$22,879	\$89,879
6310	Federman, Steven	PI	The 11b/10b Ratio in the Interstellar Medium	Space Telescope Science Institute	\$27,675	\$7,044	\$0	\$20,193	\$47,868
6311	James, Philip	PI	Synoptic Monitoring of Seasonal Phenomena On Mars	Space Telescope Science Institute	\$28,599	\$3,792	\$0	\$18,978	\$47,577
6798	Kvale, Thomas	PI	Measurements of Scattering Processes in Negative Ion-Atom Collisions	U.S. Department of Energy	\$47,487	\$10,651	\$0	\$29,759	\$77,246
7037	Kvale, Thomas	PI	Vacuum Equipment Request For the Photodetachment Experimentation	Ohio Board of Regents	\$20,000	\$0	\$0	\$0	\$20,000
6361	Witt, Adolf	PI	Radiative Transfer Analysis of Dusty Astronomical Systems	NASA Headquarters	\$96,903	\$20,090	\$0	\$45,019	\$141,922

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<i>Summary for Department of Physics and Astronomy (10 awards)</i>									
Sum					\$640,414	\$111,790	\$0	\$208,976	\$849,390
Percent					5.82%	12.04%	0.00%	7.66%	6.06%

Department of Political Science and Public Administration

6801	Bachelor, Lynn	PI	Graduate Student Internship Agreement Between UT Department of Political Science Masters in Public Administration and Fair Housing Center	Fair Housing Center	\$25,755	\$0	\$0	\$29,788	\$55,543
6820	Bachelor, Lynn	PI	Graduate Student Internship Agreement Between UT Department of Political Science and Rescue Mental Health Services	Rescue Mental Health Services	\$5,073	\$0	\$0	\$5,260	\$10,333

Summary for Department of Political Science and Public Administration (2 awards)

Sum					\$30,828	\$0	\$0	\$35,048	\$65,876
Percent					0.28%	0.00%	0.00%	1.28%	0.47%

Department of Psychology

6880	Bernieri, Frank	PI	Interactional Synchrony and Interpersonal Perception	National Science Foundation	\$25,000	\$2,273	\$0	\$4,678	\$29,678
6777	Del Castillo, David	PI	A Distributed Resources Undergraduate Psychology Laboratory	National Science Foundation	\$18,193	\$0	\$0	\$18,192	\$36,385
6552	Elliott, Robert	PI	Graduate Student Externship Agreement Between the University of Toledo and Harbor Behavioral Health Care	Harbor Behavioral Health Care	\$10,089	\$0	\$0	\$10,473	\$20,562
7010	Elliott, Robert	PI	Graduate Student Externship Agreement Between the University of Toledo and Harbor Behavioral Health Care	Harbor Behavioral Health Care	\$10,596	\$0	\$0	\$11,221	\$21,817

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7011	Elliott, Robert	PI	The Student Externship Agreement Between the University of Toledo and Zepf Community Mental Health Center	Zepf Community Health Center	\$10,595	\$0	\$0	\$11,220	\$21,815
7012	Elliott, Robert	PI	The Student Externship Agreement Between the University of Toledo and Zepf Community Mental Health Center	Zepf Community Health Center	\$837	\$0	\$0	\$1,390	\$2,227
6566	Elliott, Robert	PI	Graduate Student Externship Agreement Between the University of Toledo and the Toledo Hospital	Toledo Hospital	\$1,673	\$0	\$0	\$2,203	\$3,876
6925	Ensing, David	PI	Promoting Recovery: Process and Outcomes of the Leadership Education and Training Program	Ohio Department of Mental Health	\$40,000	\$4,003	\$0	\$14,903	\$54,903
6650	Evans, Evelyn	PI	The Emergence of Final Cause Reasoning in Young Children	Spencer Fellowship Fund	\$11,710	\$0	\$0	\$3,847	\$15,557
6435	Heffner, Henry	PI	Neurological Basis of the Perception of Non-Verbal Communication	National Institutes of Health	\$161,875	\$40,521	\$0	\$38,292	\$200,167
6444	Heffner, Rickye	PI	Evolution of Sensory Systems in Bats	National Institutes of Health	\$124,855	\$30,865	\$0	\$7,050	\$131,905

Summary for Department of Psychology (11 awards)

Sum					\$415,423	\$77,662	\$0	\$123,469	\$538,892
Percent					3.78%	8.37%	0.00%	4.52%	3.84%

Department of Sociology, Anthropology, and Social Work

7015	Morrissey, Marietta	PI	Gender and Society Publication	Sociologists for Women and Society	\$1,500	\$0	\$0	\$706	\$2,206
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Summary for Department of Sociology, Anthropology, and Social Work (1 award)

Sum					\$1,500	\$0	\$0	\$706	\$2,206
Percent					0.01%	0.00%	0.00%	0.03%	0.02%

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Lake Erie Soil and Water Research and Education Center

6626	Kumar, Ashok	PI	Determination of Impact of Co Emissions On Ambient Air Quality	Libbey-Owens-Ford	\$7,367	\$2,020	\$0	\$0	\$7,367
6896	Sinsabaugh, Robert	PI	Phenotypic Profiling of E. Coli Assemblages in Surface Water-A Method For Evaluating Fecal Contamination From Diffuse Source	Ohio Sea Grant Program	\$4,000	\$0	\$0	\$2,176	\$6,176
7043	Sinsabaugh, Robert	PI	Lake Erie Educational Research Center Support	Ohio Board of Regents	\$70,000	\$0	\$0	\$0	\$70,000

Summary for Lake Erie Soil and Water Research and Education Center (3 awards)

Sum					\$81,367	\$2,020	\$0	\$2,176	\$83,543
Percent					0.74%	0.22%	0.00%	0.08%	0.60%

Plant and Science Research Facility

7042	Goldman, Stephen	PI	Plant Science Facility: Plant Biotechnology Support	Ohio Board of Regents	\$50,000	\$0	\$0	\$0	\$50,000
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Summary for Plant and Science Research Facility (1 award)

Sum					\$50,000	\$0	\$0	\$0	\$50,000
Percent					0.45%	0.00%	0.00%	0.00%	0.36%

The Humanities Institute

7060	Ray, Roger	PI	Saturday Academy and Summer Teachers Institute, 1996-97	Clement O. Miniger Memorial Foundation	\$11,100	\$0	\$0	\$0	\$11,100
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<i>Summary for The Humanities Institute (1 award)</i>									
Sum					\$11,100	\$0	\$0	\$0	\$11,100
Percent					0.10%	0.00%	0.00%	0.00%	0.08%

The Writing Center

6936	Mullin, Joan	PI	Toledo Area Writing Project	Toledo Public Schools	\$20,000	\$0	\$0	\$0	\$20,000
6523	Mullin, Joan	PI	Early English Composition Program	Ohio Board of Regents	\$20,568	\$0	\$3,080	\$26,939	\$50,587
6825	Mullin, Joan	PI	Toledo Area Writing Project	UCLA-Berkeley	\$13,970	\$1,270	\$0	\$31,374	\$45,344
<i>Summary for The Writing Center (3 awards)</i>									
Sum					\$54,538	\$1,270	\$3,080	\$58,313	\$115,931
Percent					0.50%	0.14%	1.06%	2.14%	0.83%

Number of Awards for The College of Arts and Sciences = 80

Sum	\$3,638,629	\$383,591	\$41,421	\$840,110	\$4,520,160
Percent	33.07%	41.32%	14.22%	30.79%	32.23%

The College of Business Administration

Finance/Financial Services

6718	Moore, Gary	PI	An Analysis of the Ohio Legislation Requiring Seller Disclosure of Property Condition	Ohio State University Research Foundation	\$12,148	\$900	\$0	\$900	\$13,048
<i>Summary for Finance/Financial Services (1 award)</i>									
Sum					\$12,148	\$900	\$0	\$900	\$13,048
Percent					0.11%	0.10%	0.00%	0.03%	0.09%

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Information Systems and Operations Management

7046	Raghunathan, T.S.	PI	Information Analysis	Edgerton Forge, Inc.	\$3,549	\$323	\$0	\$0	\$3,549
7040	Vonderembse, Mark	PI	The Impact of Organizational Structure On the Level of Just-In-Time Attainment	Ohio Board of Regents	\$22,047	\$0	\$0	\$0	\$22,047
<i>Summary for Information Systems and Operations Management (2 awards)</i>									
Sum					\$25,596	\$323	\$0	\$0	\$25,596
Percent					0.23%	0.03%	0.00%	0.00%	0.18%

Northwest Ohio Center for Labor-Management Cooperation

6849	Fitts, Martin	PI	Toledo Labor-Management-Citizens Committee	City of Toledo	\$118,450	\$8,775	\$0	\$0	\$118,450
6962	Tomasi, Joseph	PI	Center For the Advancement of Labor-Management Cooperation	Ohio Department of Development	\$121,000	\$8,963	\$57,948	\$48,112	\$227,060
<i>Summary for Northwest Ohio Center for Labor-Management Cooperation (2 awards)</i>									
Sum					\$239,450	\$17,738	\$57,948	\$48,112	\$345,510
Percent					2.18%	1.91%	19.89%	1.76%	2.46%

Number of Awards for The College of Business Administration = 5

Sum					\$277,194	\$18,961	\$57,948	\$49,012	\$384,154
Percent					2.52%	2.04%	19.89%	1.80%	2.74%

The College of Education

Administration, College of Education

<i>RNUM</i>	<i>Researcher(s)</i>	<i>Role</i>	<i>Project Title</i>	<i>Sponsor</i>	<i>Sponsor Award \$</i>	<i>(Sponsor Ind. C. \$)</i>	<i>Other Source \$</i>	<i>UT Contrib \$</i>	<i>Total Award</i>
6709	Cryan, John	PI	Project Discovery At The University of Toledo	North Buckeye Educational Council	\$103,194	\$6,751	\$0	\$26,021	\$129,215
6693	Rusche, Philip	PI	20/20 Project: Ohio's Urban Universities and Schools: A Collaborative Model For Promoting Accomplished Teaching and Professional Development	Ohio Department of Education	\$70,000	\$0	\$0	\$0	\$70,000
6627	Rusche, Philip	PI	Urban Education Service Corps	Council of the Great City Schools	\$69,648	\$3,480	\$6,600	\$28,912	\$105,160
6640	Rusche, Philip	PI	Praxis III Pilot Study - Beginning Teacher Residency	Ohio Department of Education	\$34,500	\$0	\$0	\$0	\$34,500

Summary for Administration, College of Education (4 awards)

Sum					\$277,342	\$10,231	\$6,600	\$54,933	\$338,875
Percent					2.52%	1.10%	2.27%	2.01%	2.42%

Counseling and Human Services Education

6751	Wendt, Robert	PI	Minority Scholarships in Community Agency Counseling	LCMBH & United Way	\$15,328	\$0	\$0	\$24,801	\$40,129
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Summary for Counseling and Human Services Education (1 award)

Sum					\$15,328	\$0	\$0	\$24,801	\$40,129
Percent					0.14%	0.00%	0.00%	0.91%	0.29%

Department of Curriculum and Instruction

6519	Czerniak, Charlene	PI	The Great Lakes Region Near and Far: An Integrated Curriculum	Ohio Board of Regents	\$44,000	\$3,259	\$14,910	\$20,386	\$79,296
6688	Czerniak, Charlene	PI	Tech Trek	Public Broadcasting Fund	\$26,557	\$5,669	\$0	\$2,775	\$29,332

<i>RNUM</i>	<i>Researcher(s)</i>	<i>Role</i>	<i>Project Title</i>	<i>Sponsor</i>	<i>Sponsor Award \$</i>	<i>(Sponsor Ind. C. \$)</i>	<i>Other Source \$</i>	<i>UT Contrib \$</i>	<i>Total Award</i>
7019	Dinnebeil, Laurie	PI	Personnel Preparation: Infant/Toddler With Severe Disabilities	U.S. Department of Education	\$97,099	\$3,590	\$0	\$30,191	\$127,290
6885	McFarland, Suzanne	PI	Techprep: A Technologically Based Teacher Preparation Partnership	Springfield Local Schools	\$91,213	\$0	\$0	\$65,368	\$156,581
7057	McFarland, Suzanne	PI	The Governors Gifted Institute	Ohio Department of Education	\$50,000	\$0	\$0	\$0	\$50,000
6649	Schaff, John	PI	1996 Ohio Junior Science and Humanities Symposium	Academy of Applied Science	\$13,500	\$0	\$2,500	\$0	\$16,000
6781	Weber, William	PI	Teachers Teaching With Technology	University of Texas	\$4,000	\$0	\$2,000	\$500	\$6,500
6518	Weber, William	PI	Teacher Facilitators: Leadership For the Sustained Improvement of Mathematics	Ohio Board of Regents	\$42,441	\$3,144	\$0	\$3,581	\$46,022
<i>Summary for Department of Curriculum and Instruction (8 awards)</i>									
Sum					\$368,810	\$15,662	\$19,410	\$122,801	\$511,021
Percent					3.35%	1.69%	6.66%	4.50%	3.64%

Department of Educational Leadership

6660	Baldwin, Grover	PI	Graduate Student Internship Agreement between The University of Toledo College of Education and Allied Professions and Ohio Northern University	Ohio Northern University	\$7,706	\$0	\$0	\$7,936	\$15,642
6674	Baldwin, Grover	PI	Graduate Student Internship Agreement	University of Toledo	\$0	\$0	\$0	\$0	\$0
6661	Baldwin, Grover	PI	Graduate Student Internship Agreement between UT College of Education Department of Educational Leadership and office of Academic Affairs	University of Toledo	\$0	\$0	\$0	\$0	\$0
7056	Baldwin, Grover	PI	Graduate Student Internship Agreement Between UT's Department of Educational Leadership and the Community and Technical College	University of Toledo	\$0	\$0	\$0	\$0	\$0

<i>RNUM</i>	<i>Researcher(s)</i>	<i>Role</i>	<i>Project Title</i>	<i>Sponsor</i>	<i>Sponsor Award \$</i>	<i>(Sponsor Ind. C. \$)</i>	<i>Other Source \$</i>	<i>UT Contrib \$</i>	<i>Total Award</i>
6662	Baldwin, Grover	PI	Graduate Student Internship Agreement between The University of Toledo and Washington Elementary School	Washington Elementary School	\$10,647	\$0	\$0	\$9,320	\$19,967
6895	Katsinas, Stephen	PI	Amendment to the Rural Community College	Ford Foundation	\$15,000	\$910	\$0	\$454	\$15,454
6654	Piper, James	PI	Regional Personnel Development Center Grant	Bowling Green State University	\$166,000	\$0	\$0	\$58,228	\$224,228
6728	Piper, James	PI	School-To-Work-Outreach (Mentor Training)	Ohio Department of Education	\$87,500	\$4,167	\$0	\$13,005	\$100,505
6846	Rusch, Edith	PI	The Pathfinders Network: A School For Change	Perkins School District	\$60,813	\$0	\$0	\$36,378	\$97,191
<i>Summary for Department of Educational Leadership (9 awards)</i>									
Sum					\$347,666	\$5,077	\$0	\$125,321	\$472,987
Percent					3.16%	0.55%	0.00%	4.59%	3.37%

Department of Educational Psychology, Research and Social Foundations

6567	Cooks, Helen	PI	Prep-Tech Program	National Science Foundation	\$62,500	\$8,748	\$83,634	\$131,381	\$277,515
6686	Kinney, Mark	PI	Graduate Internship Agreement Between the University of Toledo and the Lisle Fellowship, Inc.	Lisle Fellowship, Inc.	\$6,794	\$0	\$0	\$7,507	\$14,301
<i>Summary for Department of Educational Psychology, Research and Social Foundations (2 awards)</i>									
Sum					\$69,294	\$8,748	\$83,634	\$138,888	\$291,816
Percent					0.63%	0.94%	28.70%	5.09%	2.08%

Department of Health Promotion and Human Performance

<i>RNUM</i>	<i>Researcher(s)</i>	<i>Role</i>	<i>Project Title</i>	<i>Sponsor</i>	<i>Sponsor Award \$</i>	<i>(Sponsor Ind. C. \$)</i>	<i>Other Source \$</i>	<i>UT Contrib \$</i>	<i>Total Award</i>
6685	Andres, Fredrick	PI	Graduate Student Internship Agreement Between University of Toledo Department of Health Promotion and Human Performance and Toledo Hospital	Toledo Hospital	\$10,035	\$0	\$0	\$9,914	\$19,949
6682	Andres, Fredrick	PI	Graduate Student Internship Agreement Between University of Toledo Department of Health Promotion and Human Performance and Toledo Hospital	Toledo Hospital	\$10,035	\$0	\$0	\$9,914	\$19,949
6683	Andres, Fredrick	PI	Graduate Student Internship Agreement Between University of Toledo Department of Health Promotion and Human Performance and Toledo Hospital	Toledo Hospital	\$10,643	\$0	\$0	\$9,914	\$20,557
6695	Andres, Fredrick	PI	Graduate Student Internship Agreement Between the University of Toledo and Riverside Hospital	Riverside Hospital	\$9,045	\$0	\$0	\$9,731	\$18,776
6684	Andres, Fredrick	PI	Graduate Student Internship Agreement Between University of Toledo Department of Health Promotion and Human Performance and Toledo Hospital	Toledo Hospital	\$10,035	\$0	\$0	\$9,914	\$19,949
6648	Andres, Fredrick	PI	Graduate Internship Agreement Between the University of Toledo and the Medical College of Ohio	Medical College of Ohio	\$9,239	\$0	\$0	\$10,284	\$19,523
6706	Andres, Fredrick	PI	Graduate Student Internship Agreement Between University of Toledo Department Health Promotion and Human Performance and Harris/Hillesland	Harris/Hillesland Health Corporation	\$6,794	\$0	\$0	\$7,507	\$14,301
6867	Andres, Fredrick	PI	Graduate Student Internship Agreement Between the University of Toledo Health Promotion and Human Performance and St. Charles Hospital	St. Charles Hospital	\$7,034	\$0	\$0	\$7,620	\$14,654
6845	Flynn, Michael	PI	Influence of Exercise On Hindlimb Suspension Induced Alterations in Stress Protein	American College of Sports Medicine Foundation	\$2,500	\$0	\$0	\$0	\$2,500

<i>RNUM</i>	<i>Researcher(s)</i>	<i>Role</i>	<i>Project Title</i>	<i>Sponsor</i>	<i>Sponsor Award \$</i>	<i>(Sponsor Ind. C. \$)</i>	<i>Other Source \$</i>	<i>UT Contrib \$</i>	<i>Total Award</i>
6707	Price, James	PI	Graduate Student Internship Agreement Between the University of Toledo College of Education and Bowling Green State University Foundation	Bowling Green State University Foundation	\$6,700	\$0	\$0	\$7,463	\$14,163
6795	Price, James	PI	Graduate Student Internship Agreement Between the University of Toledo and Riverside Hospital	Riverside Hospital	\$9,221	\$0	\$0	\$9,930	\$19,151
6425	Price, James	PI	Evaluation of HIV Programs in Ohio	Ohio Department of Health	\$25,000	\$0	\$0	\$4,770	\$29,770
6871	Price, James	PI	Graduate Student Internship Agreement Between UT Department of Health Promotion and Human Performance and Toledo Public Schools	Toledo Public Schools	\$7,500	\$0	\$0	\$7,981	\$15,481
7078	Ranck, Steven	PI	Support of the University of Toledo NCAA National Youth Sports Program	Lucas County Auditor	\$5,000	\$0	\$0	\$0	\$5,000
6947	Ranck, Steven	PI	1996 National Youth Sports Program	National Collegiate Athletic Association	\$62,900	\$0	\$11,145	\$97,500	\$171,545
6905	Ranck, Steven	PI	Supplement To the University of Toledo NCAA National Youth Sports Program	National Collegiate Athletic Association	\$1,500	\$0	\$0	\$0	\$1,500
6904	Ranck, Steven	PI	Support of the University of Toledo NCAA National Youth Sports Program	Lucas County Auditor	\$6,000	\$0	\$0	\$0	\$6,000
6919	Ranck, Steven	PI	City of Toledo Support For the University of Toledo NCAA/National Youth Sports Program	City of Toledo	\$5,000	\$0	\$0	\$0	\$5,000
6668	Rankin, James	PI	Graduate Student Internships in Athletic Training Between UT Department of Health Promotion and Human Performance and the Toledo Hospital	Toledo Hospital	\$27,557	\$0	\$0	\$24,579	\$52,136
<i>Summary for Department of Health Promotion and Human Performance (19 awards)</i>									
Sum					\$231,738	\$0	\$11,145	\$227,021	\$469,904
Percent					2.11%	0.00%	3.82%	8.32%	3.35%

<i>RNUM</i>	<i>Researcher(s)</i>	<i>Role</i>	<i>Project Title</i>	<i>Sponsor</i>	<i>Sponsor Award \$</i>	<i>(Sponsor Ind. C. \$)</i>	<i>Other Source \$</i>	<i>UT Contrib \$</i>	<i>Total Award</i>
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Department of Special Education Services

7017	Boss, Marion	PI	Personnel Preparation For Teachers With Severe and Multiple Disabilities	U.S. Department of Education	\$92,818	\$3,234	\$0	\$46,010	\$138,828
6584	Carroll, Martha	PI	Inclusion in Secondary Schools	Central Catholic High School	\$6,794	\$0	\$0	\$7,507	\$14,301
6585	Carroll, Martha	PI	Inclusion in Elementary Schools	Ottawa Hills Board of Education	\$6,794	\$0	\$0	\$7,507	\$14,301
6741	Grossi, Teresa	PI	Project MORE -- Maximizing Opportunities and Resources For Employment: Technical Assistance and Training	Ohio Association of Adult Services	\$70,310	\$0	\$0	\$7,679	\$77,989
7095	McInerney, William	PI	Early Childhood Special Education-Itinerant	U.S. Department of Education	\$86,491	\$2,592	\$0	\$47,797	\$134,288
6130	McInerney, William	PI	Early Childhood Special Education-Itinerant	U.S. Department of Education	\$86,491	\$2,753	\$0	\$46,346	\$132,837

Summary for Department of Special Education Services (6 awards)

Sum					\$349,698	\$8,579	\$0	\$162,846	\$512,544
Percent					3.18%	0.92%	0.00%	5.97%	3.65%

Number of Awards for The College of Education = 49

Sum					\$1,659,876	\$48,297	\$120,789	\$856,611	\$2,637,276
Percent					15.09%	5.20%	41.45%	31.39%	18.81%

The College of Engineering

Department of Bioengineering

<i>RNUM</i>	<i>Researcher(s)</i>	<i>Role</i>	<i>Project Title</i>	<i>Sponsor</i>	<i>Sponsor Award \$</i>	<i>(Sponsor Ind. C. \$)</i>	<i>Other Source \$</i>	<i>UT Contrib \$</i>	<i>Total Award</i>
7005	Farison, James	PI	Shear Rate in Arterial Disease	Toledo Hospital	\$15,600	\$2,600	\$0	\$9,454	\$25,054
6864	Fournier, Ronald	PI	Continuation of Evaluation of a Novel Bioartificial Pancreas	Sentron Medical, Inc.	\$98,614	\$16,439	\$0	\$0	\$98,614
7031	Fournier, Ronald	PI	Intracellular Engineering of Triplex Oligonucleotides For the Treatment of Bacterial Infections	Ohio Board of Regents	\$37,905	\$0	\$0	\$0	\$37,905
<i>Summary for Department of Bioengineering (3 awards)</i>									
Sum					\$152,119	\$19,039	\$0	\$9,454	\$161,573
Percent					1.38%	2.05%	0.00%	0.35%	1.15%

Department of Chemical and Environmental Engineering

6868	Bennett, Gary	PI	Air Quality Particulate Monitoring	Envirosafe Services of Ohio	\$10,800	\$0	\$0	\$0	\$10,800
5781	Cornell, Linda	PI	Cyclic, Diffusional, Separation Process	National Science Foundation	\$59,817	\$4,545	\$0	\$11,795	\$71,612
6676	DeWitt, Kenneth	PI	Detailed and Reduced Hydrocarbon Oxidation Chemistry	NASA Lewis Research Center	\$75,000	\$10,642	\$0	\$1,437	\$76,437
6747	DeWitt, Kenneth	PI	Environmental Effects On Boundary Layer Transition	NASA Lewis Research Center	\$77,243	\$9,942	\$0	\$0	\$77,243
6517	DeWitt, Kenneth	PI	Numerical Simulation of Internal Heat Transfer Phenomena Occurring During De-Icing of Aircraft Components	NASA Lewis Research Center	\$13,000	\$0	\$0	\$0	\$13,000
6657	DeWitt, Kenneth	PI	Cold Start Ignition Module For the Hybrid Auto Vehicle	Teledyne	\$35,000	\$5,207	\$0	\$4,727	\$39,727
6717	DeWitt, Kenneth	PI	1995-96 Ohio Aerospace Institute Undergraduate Scholarships and Master/Doctoral Fellowships	Ohio Space Grant Consortium	\$32,000	\$0	\$0	\$42,508	\$74,508

<i>RNUM</i>	<i>Researcher(s)</i>	<i>Role</i>	<i>Project Title</i>	<i>Sponsor</i>	<i>Sponsor Award \$</i>	<i>(Sponsor Ind. C. \$)</i>	<i>Other Source \$</i>	<i>UT Contrib \$</i>	<i>Total Award</i>
6389	Fournier, Ronald	PI	Evaluation of a Bioartificial Pancreas Organoid in Rats With Chemically-Induced Diabetes	Juvenile Diabetes Foundation International	\$50,000	\$4,545	\$0	\$0	\$50,000
6419	LeBlanc, Steven	PI	UT Chemical Engineering Summer Workshop	National Science Foundation	\$71,648	\$10,876	\$0	\$36,984	\$108,632
6877	Lipscomb, Glenn	PI	The Influence of Shell-Side Flows On Mass Transfer in Hollow Fiber Membrane Modules	National Science Foundation	\$58,968	\$15,361	\$0	\$22,866	\$81,834
<i>Summary for Department of Chemical and Environmental Engineering (10 awards)</i>									
Sum					\$483,476	\$61,118	\$0	\$120,317	\$603,793
Percent					4.39%	6.58%	0.00%	4.41%	4.31%

Department of Civil Engineering

6881	Chou, Eddie	PI	Supplement To Identification of Durability Problems Under Concrete Pavement Joints	Ohio Department of Transportation	\$1,000	\$0	\$0	\$0	\$1,000
6802	Chou, Eddie	PI	Supplement To Rational Determination of Pavement Layer Structural Coefficients	Ohio Department of Transportation	\$30,134	\$6,027	\$0	\$41,277	\$71,411
6362	Gupta, Jiwan	PI	Development of a Model To Assess Costs of Opening a New Or Closing An Existing Outpost Or County Garage	Ohio Department of Transportation	\$83,317	\$16,324	\$0	\$71,970	\$155,287
6949	Heydinger, Andrew	PI	Cost Effective Soil Stabilization Methods For Paulding County Roads	Paulding County Engineer	\$7,000	\$1,167	\$0	\$2,635	\$9,635
7014	Kumar, Ashok	PI	Development of Input Data File For Starship Program	Ecological Services, Inc.	\$4,600	\$1,259	\$0	\$0	\$4,600
6521	Kumar, Ashok	PI	Analysis For Title V (Caa) Compliance	Rockwell International	\$20,254	\$5,594	\$0	\$2,832	\$23,086
6653	Kumar, Ashok	PI	Full 3-D Dispersion Model Used To Develop Smaller Algorithms For Applied Usage	Ohio Supercomputer	\$0	\$0	\$0	\$0	\$0
6588	Mostaghel, Naser	PI	Pulsating Impeller	Office of Naval Research	\$85,126	\$20,122	\$0	\$20,120	\$105,246

<i>RNUM</i>	<i>Researcher(s)</i>	<i>Role</i>	<i>Project Title</i>	<i>Sponsor</i>	<i>Sponsor Award \$</i>	<i>(Sponsor Ind. C. \$)</i>	<i>Other Source \$</i>	<i>UT Contrib \$</i>	<i>Total Award</i>
6730	Nims, Douglas Parvin, Azadeh	PI Co1	Instrumented Elastomeric Bridge Bearings	Ohio Department of Transportation	\$74,999	\$12,894	\$0	\$88,033	\$163,032
6912	Nims, Douglas Parvin, Azadeh	PI Co1	OBOR Investment Fund Award: Infrastructure Assessment Consortium	University of Cincinnati	\$29,934	\$0	\$0	\$0	\$29,934
6991	Pickett, Mark	PI	Experimental Determination of Frequency and Damage Location in Concrete Masonry Walls	Masonry Institute of NW Ohio	\$1,130	\$0	\$0	\$0	\$1,130
7021	Pickett, Mark	PI	Non-Destructive Condition Assessment of Tindall Bridge	Sandusky County Engineer	\$7,741	\$2,461	\$0	\$3,075	\$10,816
<i>Summary for Department of Civil Engineering (12 awards)</i>									
Sum					\$345,235	\$65,848	\$0	\$229,942	\$575,177
Percent					3.14%	7.09%	0.00%	8.43%	4.10%

Department of Electrical Engineering and Computer Science

6586	Farison, James	PI	Shear Rate in Arterial Disease	Toledo Hospital	\$15,000	\$2,500	\$0	\$5,492	\$20,492
7030	Farison, James	PI	Collaborative Doppler Ultrasound Research For Prediction and Detection of Vascular Stiffness and Arteriosclerosis	Ohio Board of Regents	\$13,420	\$0	\$0	\$0	\$13,420
7036	Kapoor, Vik	PI	Material Characterization and Band-Gap Engineering of Aluminum Gallium Nitride Quantum-Well Devices	Ohio Board of Regents	\$35,000	\$0	\$0	\$0	\$35,000
6874	Kwatra, Subhash	PI	VLSI Implementation of Communication Systems	NASA Lewis Research Center	\$60,000	\$16,685	\$0	\$6,034	\$66,034
6733	Serpen, Gursel	PI	A Novel Artificial Neural Network Classifier For Multi-Modal Distributed Classes-Rdl	Air Force Office of Scientific Research	\$25,000	\$7,441	\$0	\$22,425	\$47,425
6752	Stuart, Thomas	PI	A Solid State Equalizer For Electric Vehicle Batteries	Chrysler Corporation	\$80,861	\$21,507	\$0	\$5,748	\$86,609

<i>RNUM</i>	<i>Researcher(s)</i>	<i>Role</i>	<i>Project Title</i>	<i>Sponsor</i>	<i>Sponsor Award \$</i>	<i>(Sponsor Ind. C. \$)</i>	<i>Other Source \$</i>	<i>UT Contrib \$</i>	<i>Total Award</i>
6263	Stuart, Thomas	PI	Development of a Turbine Controls System For a Hybrid Electric Vehicle	Teledyne	\$35,000	\$5,730	\$0	\$7,430	\$42,430

Summary for Department of Electrical Engineering and Computer Science (7 awards)

Sum					\$264,281	\$53,863	\$0	\$47,129	\$311,410
Percent					2.40%	5.80%	0.00%	1.73%	2.22%

Department of Mechanical, Industrial, and Manufacturing Engineering

7029	Afjeh, Abdollah	PI	Design, Simulation and Fabrication of Microelectromechanical Systems	Ohio Board of Regents	\$14,405	\$0	\$0	\$0	\$14,405
7049	Bennett, Robert	PI	Plastic Recycling Research On PET	National Association for Plastic Container Recovery	\$12,000	\$3,233	\$0	\$0	\$12,000
6406	Bennett, Robert	PI	Plastic Recycling Research On PET	National Association for Plastic Container Recovery	\$16,000	\$4,286	\$0	\$0	\$16,000
6945	Bennett, Robert	PI	Waste Analyses and Minimization Research Project: An Environmentally Conscious Manufacturing Initiative	Lucas County Solid Waste Division	\$94,874	\$15,812	\$0	\$30,471	\$125,345
6920	Fatemi, Ali	PI	Fatigue Crack Growth Behavior of Cast Steels Including the Threshold Region	John Deere Engine Engineering	\$32,875	\$6,575	\$0	\$27,026	\$59,901
6926	Fatemi, Ali	PI	Structural Design and Fatigue Life Prediction Analysis of Spring Over Shocks (Supplement)	Monroe Auto Equipment	\$18,310	\$3,662	\$0	\$1,866	\$20,176
6379	Irey, Richard	PI	Experimental Measurement of 3d Viscous Airflow Through Bifurcating Tubular Networks	Medical College of Ohio	\$90,692	\$0	\$0	\$30,899	\$121,591
6287	Jeng, Duen-Ren	PI	Pulmonary Gas Diffusion and Uptake	Medical College of Ohio	\$22,500	\$0	\$0	\$12,892	\$35,392
6810	Keith, Theo	PI	Hydrodynamic Analyses and Evaluation of New Fluid Film Bearing Concepts	NASA Lewis Research Center	\$110,000	\$14,778	\$0	\$0	\$110,000

<i>RNUM</i>	<i>Researcher(s)</i>	<i>Role</i>	<i>Project Title</i>	<i>Sponsor</i>	<i>Sponsor Award \$</i>	<i>(Sponsor Ind. C. \$)</i>	<i>Other Source \$</i>	<i>UT Contrib \$</i>	<i>Total Award</i>
6696	Keith, Theo	PI	Effect of Cavitation On Journal Bearing Dynamic Characteristics	NASA Lewis Research Center	\$75,334	\$10,186	\$0	\$0	\$75,334
6664	Keith, Theo	PI	Hydrodynamic Analyses and Evaluation of New Fluid Film Bearing Concepts	NASA Lewis Research Center	\$20,007	\$2,614	\$0	\$0	\$20,007
6724	Keith, Theo	PI	Development of An Aeroelastic Analysis Including a Viscous Flow Model	NASA Lewis Research Center	\$86,000	\$11,693	\$0	\$0	\$86,000
6725	Keith, Theo	PI	Computational Simulation of Composite Material Behavior	NASA Lewis Research Center	\$96,811	\$12,883	\$0	\$0	\$96,811
6726	Keith, Theo	PI	Application of Aeroelastic Solvers Based On Navier-Stokes Equations	NASA Lewis Research Center	\$84,500	\$11,499	\$0	\$0	\$84,500
6727	Keith, Theo	PI	Computation of Reacting Flows in Combustion Processes	NASA Lewis Research Center	\$96,500	\$12,725	\$0	\$0	\$96,500
6628	Keith, Theo	PI	Design and Modeling of a High Efficiency Silicon Solar Cell With Buried Trap Level	NASA Lewis Research Center	\$1,000	\$0	\$0	\$0	\$1,000
6779	Keith, Theo	PI	Tribology Studies At the University of Toledo	NASA Lewis Research Center	\$16,440	\$2,333	\$0	\$0	\$16,440
6418	Keith, Theo	PI	Effect of Cavitation On Journal Bearing Dynamic Characteristics	NASA Lewis Research Center	\$8,967	\$1,172	\$0	\$0	\$8,967
6723	Keith, Theo	PI	Aeroelastic Stability and Response of Rotating Structures	NASA Lewis Research Center	\$96,000	\$12,973	\$0	\$0	\$96,000
6865	Keith, Theo	PI	OAI, Inc. Visiting Faculty At Ohio Aerospace Institute	Ohio Aerospace Institute, Inc.	\$45,480	\$0	\$0	\$6,836	\$52,316
6659	Naganathan, G.	PI	Engineering Senior Design Projects To Aid the Disabled	National Science Foundation	\$28,050	\$0	\$0	\$0	\$28,050
6629	Ng, Terry	PI	Turbo Charger Intercooler Study	Touchstone Company	\$10,566	\$1,761	\$0	\$1,042	\$11,608
6701	Ng, Terry	PI	Haas Jordan/EISC Umbrella Testing	The Edison Industrial Systems Center	\$1,500	\$0	\$0	\$0	\$1,500

<i>RNUM</i>	<i>Researcher(s)</i>	<i>Role</i>	<i>Project Title</i>	<i>Sponsor</i>	<i>Sponsor Award \$</i>	<i>(Sponsor Ind. C. \$)</i>	<i>Other Source \$</i>	<i>UT Contrib \$</i>	<i>Total Award</i>
<i>Summary for Department of Mechanical, Industrial, and Manufacturing Engineering (23 awards)</i>									
Sum					\$1,078,811	\$128,185	\$0	\$111,032	\$1,189,843
Percent					9.80%	13.81%	0.00%	4.07%	8.48%

Polymer Institute

7001	Jabarin, Saleh	PI	Research Performed For Astro-Valcour, Inc.	Astro-Valcour, Inc.	\$500	\$0	\$0	\$0	\$500
7002	Jabarin, Saleh	PI	Research Performed For Signode Consumable	Signode Consumable	\$475	\$0	\$0	\$0	\$475
7073	Jabarin, Saleh	PI	Research Performed For Sonoco Products Company	Sonoco Products	\$1,200	\$0	\$0	\$0	\$1,200
7072	Jabarin, Saleh	PI	Research Performed For Edison Industrial Systems Center	The Edison Industrial Systems Center	\$700	\$0	\$0	\$0	\$700
7003	Jabarin, Saleh	PI	Research Performed For Sunkyong Industries	Sunkyong Industries, Ltd	\$3,500	\$0	\$0	\$0	\$3,500
7035	Jabarin, Saleh	PI	Aging Characteristics of Polyester Materials	Ohio Board of Regents	\$35,000	\$0	\$0	\$0	\$35,000
7071	Jabarin, Saleh	PI	Industrial Consortium For PET Research	Husky Injection Molding Systems, Inc.	\$25,000	\$0	\$0	\$0	\$25,000
7070	Jabarin, Saleh	PI	Research Performed For Sabic R&D	Sabic R&D	\$2,150	\$0	\$0	\$0	\$2,150
7069	Jabarin, Saleh	PI	Research Performed For Toltest, Inc.	ToITest, Inc.	\$225	\$0	\$0	\$0	\$225
7004	Jabarin, Saleh	PI	Research Performed For Integrated Technologies	Integrated Technologies	\$1,100	\$0	\$0	\$0	\$1,100
6839	Jabarin, Saleh	PI	Research Performed For Paxon Polymer Company	Paxon Polymer Company	\$1,000	\$0	\$0	\$0	\$1,000
6766	Jabarin, Saleh	PI	Research Performed For Coca-Cola	Coca-Cola	\$1,490	\$0	\$0	\$0	\$1,490
6767	Jabarin, Saleh	PI	Research Performed For Ross Laboratories	Ross Laboratories	\$600	\$0	\$0	\$0	\$600

<i>RNUM</i>	<i>Researcher(s)</i>	<i>Role</i>	<i>Project Title</i>	<i>Sponsor</i>	<i>Sponsor Award \$</i>	<i>(Sponsor Ind. C. \$)</i>	<i>Other Source \$</i>	<i>UT Contrib \$</i>	<i>Total Award</i>
6768	Jabarin, Saleh	PI	Research Performed For Toltest, Inc.	TolTest, Inc.	\$200	\$0	\$0	\$0	\$200
6843	Jabarin, Saleh	PI	Research Performed For the Clorox Company	Clorox Company	\$6,333	\$0	\$0	\$0	\$6,333
6841	Jabarin, Saleh	PI	Research Performed For Schneider (USA) Inc.	Schneider, Inc.	\$750	\$0	\$0	\$0	\$750
6715	Jabarin, Saleh	PI	Research Projects For Nibco, Inc	Nibco, Inc.	\$1,845	\$0	\$0	\$0	\$1,845
6804	Jabarin, Saleh	PI	Research Performed For AET Packaging Films	AET Packaging Films	\$450	\$0	\$0	\$0	\$450
6805	Jabarin, Saleh	PI	Research Performed For Parkland Plastics	Parkland Plastics	\$1,255	\$0	\$0	\$0	\$1,255
6806	Jabarin, Saleh	PI	Research Performed For Plastipak	Plastipak	\$1,530	\$0	\$0	\$0	\$1,530
6765	Jabarin, Saleh	PI	Research Performed For Epsilon Products	Epsilon Products	\$1,700	\$0	\$0	\$0	\$1,700
6840	Jabarin, Saleh	PI	Research Performed For Norton Performance Plastics	Norton Company	\$350	\$0	\$0	\$0	\$350
6842	Jabarin, Saleh	PI	Resin and Process Characterization	Fremont Plastic Products, Inc.	\$10,000	\$0	\$0	\$0	\$10,000
6827	Jabarin, Saleh	PI	Research Agreement Between the Edison Industrial Systems Center and the University of Toledo Polymer Institute	The Edison Industrial Systems Center	\$100,000	\$0	\$0	\$0	\$100,000
6818	Jabarin, Saleh	PI	Industrial Consortium For Polyethylene Terephthalate (PET) Research	ICI Chemicals	\$25,000	\$0	\$0	\$0	\$25,000
6906	Jabarin, Saleh	PI	Computer Simulation of Plastic Forming Processes	Owens Illinois, Inc.	\$80,000	\$0	\$0	\$0	\$80,000
6915	Jabarin, Saleh	PI	Industrial Consortium For PET Research	Johnson Controls	\$25,000	\$0	\$0	\$0	\$25,000
6956	Jabarin, Saleh	PI	Research Performed For Graham Packaging	Graham Packaging	\$1,775	\$0	\$0	\$0	\$1,775
6928	Jabarin, Saleh	PI	Industrial Consortium For Poly(Ethylene Terephthalate), PET, Research (Consortium)	Tetra Pak (Suisse), S.A.	\$25,000	\$0	\$0	\$0	\$25,000

<i>RNUM</i>	<i>Researcher(s)</i>	<i>Role</i>	<i>Project Title</i>	<i>Sponsor</i>	<i>Sponsor Award \$</i>	<i>(Sponsor Ind. C. \$)</i>	<i>Other Source \$</i>	<i>UT Contrib \$</i>	<i>Total Award</i>
6955	Jabarin, Saleh	PI	Research Performed For E.P. Technologies	E.P. Technologies	\$2,200	\$0	\$0	\$0	\$2,200
6941	Jabarin, Saleh	PI	Industrial Consortium For Poly(Ethylene Terephthalate), PET, Research	Coca-Cola	\$25,000	\$0	\$0	\$0	\$25,000
6954	Jabarin, Saleh	PI	Research Performed For Tetrapak Materials	Tetra Pak (Suisse), S.A.	\$8,400	\$0	\$0	\$0	\$8,400
6807	Jabarin, Saleh	PI	Research Performed For Toledo Molding and Die	Toledo Molding and Die, Inc.	\$3,105	\$0	\$0	\$0	\$3,105
6879	Jabarin, Saleh	PI	Research Performed For U.S. Coexcel	U.S. Coexcel, Inc.	\$890	\$0	\$0	\$0	\$890
6808	Jabarin, Saleh	PI	Research Performed For Brunswick Container	Brunswick Container Corporation	\$625	\$0	\$0	\$0	\$625
6713	Jabarin, Saleh	PI	Research Projects For Latham & Watkins	Latham and Watkins	\$6,500	\$0	\$0	\$0	\$6,500
6712	Jabarin, Saleh	PI	Research Projects For Encon, Inc.	Encon, Inc.	\$27,000	\$0	\$0	\$0	\$27,000
6716	Jabarin, Saleh	PI	Research Projects For Shakespeare, Inc	Shakespeare, Inc	\$10,100	\$0	\$0	\$0	\$10,100
6720	Jabarin, Saleh	PI	Research Projects For Johnson Controls	Johnson Controls	\$19,400	\$0	\$0	\$0	\$19,400
6721	Jabarin, Saleh	PI	Research Projects For Sterling Laboratories	Sterling Laboratories	\$600	\$0	\$0	\$0	\$600
6711	Jabarin, Saleh	PI	Research Projects For Owens-Illinois	Owens Illinois, Inc.	\$33,425	\$0	\$0	\$0	\$33,425
6714	Jabarin, Saleh	PI	Research Projects For Morton	Morton International	\$2,425	\$0	\$0	\$0	\$2,425
6722	Jabarin, Saleh	PI	Research Projects For Continental Plastics	Continental Plastics	\$4,950	\$0	\$0	\$0	\$4,950
6719	Jabarin, Saleh	PI	Research Performed For Pepsico	Pepsi-Cola	\$11,605	\$0	\$0	\$0	\$11,605
6878	Jabarin, Saleh	PI	Research Performed For Biopure Corp	Biopure Corporation	\$2,150	\$0	\$0	\$0	\$2,150
6710	Jabarin, Saleh	PI	Research Projects For Monarch Analytical	Monarch Analytical	\$6,230	\$0	\$0	\$0	\$6,230
6737	Jabarin, Saleh	PI	Research Performed For Plastic Technologies	Plastic Packaging Prod	\$13,725	\$0	\$0	\$0	\$13,725

<i>RNUM</i>	<i>Researcher(s)</i>	<i>Role</i>	<i>Project Title</i>	<i>Sponsor</i>	<i>Sponsor Award \$</i>	<i>(Sponsor Ind. C. \$)</i>	<i>Other Source \$</i>	<i>UT Contrib \$</i>	<i>Total Award</i>
6738	Jabarin, Saleh	PI	Research Performed For Weatherchem Corporation	Wheatherchem	\$975	\$0	\$0	\$0	\$975
6739	Jabarin, Saleh	PI	Research Performed For Rhetechn	Rhetechn, Inc.	\$1,625	\$0	\$0	\$0	\$1,625
6740	Jabarin, Saleh	PI	Research Performed For General Motors	General Motors	\$750	\$0	\$0	\$0	\$750

Summary for Polymer Institute (50 awards)

Sum					\$535,808	\$0	\$0	\$0	\$535,808
Percent					4.87%	0.00%	0.00%	0.00%	3.82%

Number of Awards for The College of Engineering = 105

Sum					\$2,859,730	\$328,053	\$0	\$517,874	\$3,377,604
Percent					25.99%	35.34%	0.00%	18.98%	24.09%

The College of Law

College of Law

6315	Kennedy, Robin	PI	Law School Clinical Experience Program	U.S. Department of Education	\$33,888	\$0	\$0	\$30,979	\$64,867
6971	Kennedy, Robin	PI	Dispute Resolution Clinic	Lucas County Commissioners	\$15,000	\$0	\$0	\$0	\$15,000

Summary for College of Law (2 awards)

Sum					\$48,888	\$0	\$0	\$30,979	\$79,867
Percent					0.44%	0.00%	0.00%	1.14%	0.57%

Number of Awards for The College of Law = 2

Sum					\$48,888	\$0	\$0	\$30,979	\$79,867
Percent					0.44%	0.00%	0.00%	1.14%	0.57%

<i>RNUM</i>	<i>Researcher(s)</i>	<i>Role</i>	<i>Project Title</i>	<i>Sponsor</i>	<i>Sponsor Award \$</i>	<i>(Sponsor Ind. C. \$)</i>	<i>Other Source \$</i>	<i>UT Contrib \$</i>	<i>Total Award</i>
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The College of Pharmacy

Department of Medicinal and Biological Chemistry

7033	Hudson, Richard	PI	Mutation Rate Inhibitors in HIV Therapy	Ohio Board of Regents	\$24,056	\$0	\$0	\$0	\$24,056
6914	Hudson, Richard	PI	Agreement For the Use of Research Equipment: Department of Medicinal and Biological Chemistry	Gliatech, Inc.	\$5,000	\$0	\$0	\$0	\$5,000
6932	Hudson, Richard	PI	Reflux Esophagitis	Tulane University	\$68,000	\$11,333	\$0	\$6,533	\$74,533
6453	McInerney, Marcia	PI	The Role of High Density Insulin Receptor T Cells in Type 1 Diabetes	Diabetes Action Research and Education Foundation	\$33,000	\$2,727	\$0	\$4,822	\$37,822
6760	McInerney, Marcia	PI	Upregulated Insulin Receptor Expression On Peripheral T Cells: A Potential Prediction of Diabetes Onset	Central Ohio Diabetes Association	\$49,964	\$0	\$0	\$12,402	\$62,366
6439	Messer, William	PI	Development of Amidines As Selective Muscarinic Agonists	National Institutes of Health	\$193,775	\$44,292	\$0	\$5,665	\$199,440
7039	Messer, William	PI	Preclinical Development of Muscarinic Agonists For the Treatment of Alzheimer's Disease	Ohio Board of Regents	\$26,961	\$0	\$0	\$0	\$26,961
6570	Nagy, Peter	PI	Molecular Modeling For Human Estrogen Mimics	Concurrent Technologies Corp	\$24,983	\$6,845	\$0	\$0	\$24,983
7058	Nagy, Peter	PI	Molecular Modeling For Substituted Guanidines	Cambridge Neuroscience	\$10,000	\$0	\$0	\$0	\$10,000
6631	Nagy, Peter	PI	Theoretical Estimation of Structural Parameters For Biologically Active Molecules	Ohio Supercomputer	\$0	\$0	\$0	\$0	\$0
6937	Wall, Katherine	PI	Peptide Strategy For Prevention of Autoimmune Myasthenia	University of Texas	\$44,418	\$9,856	\$0	\$7,841	\$52,259

<i>RNUM</i>	<i>Researcher(s)</i>	<i>Role</i>	<i>Project Title</i>	<i>Sponsor</i>	<i>Sponsor Award \$</i>	<i>(Sponsor Ind. C. \$)</i>	<i>Other Source \$</i>	<i>UT Contrib \$</i>	<i>Total Award</i>
6622	Wall, Katherine	PI	Cd38 As a Target For Antitumor Drug Development	Ohio American Cancer Society	\$20,000	\$1,818	\$0	\$4,335	\$24,335

Summary for Department of Medicinal and Biological Chemistry (12 awards)

Sum					\$500,157	\$76,871	\$0	\$41,598	\$541,755
Percent					4.55%	8.28%	0.00%	1.52%	3.86%

Department of Pharmacology

6647	Bachmann, Kenneth	PI	Study Manager For the Center For Applied Pharmacology - Year 4	St. Vincent Medical Center	\$13,904	\$0	\$0	\$0	\$13,904
6930	Bachmann, Kenneth	PI	Consultant in the Development of Dirithromycin	Lilly Research Laboratories	\$15,000	\$0	\$0	\$5,661	\$20,661
6993	Bachmann, Kenneth	PI	A Double-Blind Parallel Study To Investigate the Effect of Mk-0966 On Oral Methotrexate Pharmacokinetics in Rheumatoid Arthritis Patients	Merck Research Labs	\$50,220	\$6,550	\$0	\$0	\$50,220
6773	Bachmann, Kenneth	PI	Use of Chlorzoxazone As a Single Sample Probe For Cyp2e1 and Marker For Alcoholic Liver Disease	Douglass Foundation	\$3,300	\$0	\$0	\$0	\$3,300
6788	Hassoun, Ezdihar	PI	Fetotoxicity of Tcdd, Endrin and Lindane in Mice	National Institutes of Health	\$36,857	\$5,665	\$0	\$7,614	\$44,471

Summary for Department of Pharmacology (5 awards)

Sum					\$119,281	\$12,215	\$0	\$13,275	\$132,556
Percent					1.08%	1.32%	0.00%	0.49%	0.95%

Department of Pharmacy Practice

<i>RNUM</i>	<i>Researcher(s)</i>	<i>Role</i>	<i>Project Title</i>	<i>Sponsor</i>	<i>Sponsor Award \$</i>	<i>(Sponsor Ind. C. \$)</i>	<i>Other Source \$</i>	<i>UT Contrib \$</i>	<i>Total Award</i>
6900	Black, Curtis	PI	Effectiveness of Oral Dolasetron Vs Prochlorperazine in the Treatment of Nausea and Emesis Due To Fractionated Abdominal Radiotherapy	Hoechst-Roussel-Marion	\$42,570	\$3,870	\$0	\$0	\$42,570
6680	Hagmeyer, Kathleen	PI	Cholesterol Management Services in a Community Pharmacy	Merck Human Health	\$85,000	\$0	\$0	\$2,358	\$87,358
6970	Mauro, Vincent	PI	Abciximab Education	Eli Lilly Company	\$200	\$0	\$0	\$0	\$200

Summary for Department of Pharmacy Practice (3 awards)

Sum					\$127,770	\$3,870	\$0	\$2,358	\$130,128
Percent					1.16%	0.42%	0.00%	0.09%	0.93%

Number of Awards for The College of Pharmacy = 20

Sum					\$747,208	\$92,956	\$0	\$57,231	\$804,439
Percent					6.79%	10.01%	0.00%	2.10%	5.74%

University College

Administration, University College

6786	Moon, Henry	PI	Implementing Grant Writing Capability in the Owens Corning-University College Educational Partnership	Owens Corning	\$22,196	\$0	\$0	\$21,080	\$43,276
6957	Moon, Henry	PI	Educational Services Agreement Between the University of Toledo University College and Owens Corning Fiberglas	Owens Corning	\$82,500	\$7,500	\$0	\$13,085	\$95,585

Summary for Administration, University College (2 awards)

Sum					\$104,696	\$7,500	\$0	\$34,165	\$138,861
Percent					0.95%	0.81%	0.00%	1.25%	0.99%

<i>RNUM</i>	<i>Researcher(s)</i>	<i>Role</i>	<i>Project Title</i>	<i>Sponsor</i>	<i>Sponsor Award \$</i>	<i>(Sponsor Ind. C. \$)</i>	<i>Other Source \$</i>	<i>UT Contrib \$</i>	<i>Total Award</i>
<i>Urban Affairs Center</i>									
7184	Randall, Ronald	PI	Inter-University Consortium For Political and Social Research	Ohio Board of Regents	\$3,150	\$0	\$0	\$0	\$3,150
6736	Randall, Ronald	PI	Urban Affairs Center 1995-96	Ohio Board of Regents	\$215,651	\$0	\$0	\$0	\$215,651
6735	Randall, Ronald	PI	Cleaning Es-202 Data	Cleveland State University	\$15,000	\$0	\$0	\$0	\$15,000
6678	Randall, Ronald	PI	Manufacturing Communities: A Neighborhood Based Urban Flexible Manufacturing Network For Toledo, Ohio	Joyce Foundation	\$79,461	\$0	\$0	\$0	\$79,461
6667	Randall, Ronald	PI	Proposal To the Urban University Program From the Urban University and Neighborhood Network (UUNN)	Cleveland State University	\$69,800	\$0	\$0	\$20,833	\$90,633
7079	Wuest, Susan	PI	Support of the Flexible Manufacturing Network: Investment in Technoflex, Ltd.	Lucas County Commissioners	\$11,500	\$0	\$0	\$0	\$11,500
<i>Summary for Urban Affairs Center (6 awards)</i>									
Sum					\$394,562	\$0	\$0	\$20,833	\$415,395
Percent					3.59%	0.00%	0.00%	0.76%	2.96%
<i>Number of Awards for University College = 8</i>									
Sum					\$499,258	\$7,500	\$0	\$54,998	\$554,256
Percent					4.54%	0.81%	0.00%	2.02%	3.95%

University Community and Technical College

Administration, University Community and Technical College

<i>RNUM</i>	<i>Researcher(s)</i>	<i>Role</i>	<i>Project Title</i>	<i>Sponsor</i>	<i>Sponsor Award \$</i>	<i>(Sponsor Ind. C. \$)</i>	<i>Other Source \$</i>	<i>UT Contrib \$</i>	<i>Total Award</i>
6844	Henderson, Chris	PI	College Enhancement Transition	Toledo Public Schools	\$3,000	\$0	\$0	\$0	\$3,000
6592	Lettman, Dennis	PI	Project G.A.T.E.: Gaining Access To Technology Education	Toledo Area Private Industry Council	\$55,064	\$0	\$0	\$18,842	\$73,906
6984	Lettman, Dennis	PI	Regional Workforce Development Liaison	Ohio Board of Regents	\$25,000	\$1,436	\$0	\$2,948	\$27,948
6593	Lettman, Dennis	PI	Project Keep: Student Retention 1995-96	Toledo Area Private Industry Council	\$74,314	\$0	\$0	\$27,935	\$102,249
6783	Lettman, Dennis	PI	Project PATE: Promoting Access in Technical Education	Ohio Department of Education	\$11,992	\$0	\$0	\$7,941	\$19,933
6445	Lettman, Dennis	PI	Ohio Work Study Program	Columbus State Community College	\$344,716	\$14,618	\$0	\$0	\$344,716
6705	Lettman, Dennis	PI	Project Leap: Skills Enhancement Program	Lucas County Department of Human Services	\$46,130	\$3,417	\$0	\$11,798	\$57,928
6876	Linker, Carol	PI	Toledo Training Network	Ohio Board of Regents/Ohio Department of Development	\$100,816	\$4,801	\$71,223	\$90,211	\$262,250
6666	Sullivan, Jerome	PI	Carl Perkins Tech-Prep Program	Owens Community College	\$93,841	\$0	\$0	\$0	\$93,841

Summary for Administration, University Community and Technical College (9 awards)

Sum					\$754,873	\$24,272	\$71,223	\$159,675	\$985,771
Percent					6.86%	2.61%	24.44%	5.85%	7.03%

Department of General Studies

6625	Gerlach, James	PI	Two-Year College Strategic Plan Carl D. Perkins Title Ii	Ohio Department of Education	\$68,671	\$0	\$0	\$23,816	\$92,487
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<i>RNUM</i>	<i>Researcher(s)</i>	<i>Role</i>	<i>Project Title</i>	<i>Sponsor</i>	<i>Sponsor Award \$</i>	<i>(Sponsor Ind. C. \$)</i>	<i>Other Source \$</i>	<i>UT Contrib \$</i>	<i>Total Award</i>
<i>Summary for Department of General Studies (1 award)</i>									
Sum					\$68,671	\$0	\$0	\$23,816	\$92,487
Percent					0.62%	0.00%	0.00%	0.87%	0.66%
Number of Awards for University Community and Technical College = 10									
Sum					\$823,544	\$24,272	\$71,223	\$183,491	\$1,078,258
Percent					7.48%	2.61%	24.44%	6.72%	7.69%

Undergraduate and Graduate Education

Office of Professional Experience Programs

6279	Cunningham, Donald	PI	Cooperative Education Program	U.S. Department of Education	\$35,706	\$2,645	\$0	\$83,631	\$119,337
<i>Summary for Office of Professional Experience Programs (1 award)</i>									
Sum					\$35,706	\$2,645	\$0	\$83,631	\$119,337
Percent					0.32%	0.28%	0.00%	3.06%	0.85%

University Office of Research Services

7044	Hashmi, Waheed	PI	Animal Care Facility	Ohio Board of Regents	\$10,000	\$0	\$0	\$0	\$10,000
7068	Hoss, Wayne	PI	Special Projects	Ohio Board of Regents	\$27,000	\$0	\$0	\$0	\$27,000
<i>Summary for University Office of Research Services (2 awards)</i>									
Sum					\$37,000	\$0	\$0	\$0	\$37,000
Percent					0.34%	0.00%	0.00%	0.00%	0.26%

<i>RNUM</i>	<i>Researcher(s)</i>	<i>Role</i>	<i>Project Title</i>	<i>Sponsor</i>	<i>Sponsor Award \$</i>	<i>(Sponsor Ind. C. \$)</i>	<i>Other Source \$</i>	<i>UT Contrib \$</i>	<i>Total Award</i>
<i>Number of Awards for Undergraduate and Graduate Education = 3</i>									
Sum					\$72,706	\$2,645	\$0	\$83,631	\$156,337
Percent					0.66%	0.28%	0.00%	3.06%	1.11%

Student Services

Center for Women

6655	Mills, Dianne	PI	Displaced Homemakers Program	Ohio Board of Regents	\$68,905	\$0	\$0	\$0	\$68,905
<i>Summary for Center for Women (1 award)</i>									
Sum					\$68,905	\$0	\$0	\$0	\$68,905
Percent					0.63%	0.00%	0.00%	0.00%	0.49%

Office of Multicultural Student Development

6335	Terry, Ardenia	PI	1995-2000 Upward Bound Program	U.S. Department of Education	\$298,624	\$20,976	\$0	\$54,841	\$353,465
<i>Summary for Office of Multicultural Student Development (1 award)</i>									
Sum					\$298,624	\$20,976	\$0	\$54,841	\$353,465
Percent					2.71%	2.26%	0.00%	2.01%	2.52%

The Office of Prevention

6850	Irmen, Susan	PI	Ohio Substance Abuse Prevention Network	ABT Associates, Inc.	\$5,000	\$0	\$0	\$0	\$5,000
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<i>RNUM</i>	<i>Researcher(s)</i>	<i>Role</i>	<i>Project Title</i>	<i>Sponsor</i>	<i>Sponsor Award \$</i>	<i>(Sponsor Ind. C. \$)</i>	<i>Other Source \$</i>	<i>UT Contrib \$</i>	<i>Total Award</i>
<i>Summary for The Office of Prevention (1 award)</i>									
Sum					\$5,000	\$0	\$0	\$0	\$5,000
Percent					0.05%	0.00%	0.00%	0.00%	0.04%

Number of Awards for Student Services = 3

Sum					\$372,529	\$20,976	\$0	\$54,841	\$427,370
Percent					3.39%	2.26%	0.00%	2.01%	3.05%

Carlson Library

Local Public Documents Room/Carlson Library

6943	Baldwin, Julia	PI	Maintenance and Operation of the Local Public Document Room	Nuclear Regulatory Commission	\$3,820	\$1,014	\$0	\$0	\$3,820
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Summary for Local Public Documents Room/Carlson Library (1 award)

Sum					\$3,820	\$1,014	\$0	\$0	\$3,820
Percent					0.03%	0.11%	0.00%	0.00%	0.03%

Number of Awards for Carlson Library = 1

Sum					\$3,820	\$1,014	\$0	\$0	\$3,820
Percent					0.03%	0.11%	0.00%	0.00%	0.03%

Grand Total Total Number of Awards = 286

\$11,003,382	\$928,265	\$291,381	\$2,728,778	\$14,023,541
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