

**The University of Toledo  
Office of Research**

**Detail of Awards According to Academic Department**

*Start FY:* 2004  
*End FY:* 2004

*Start Date:* 7/1/2003  
*End Date:* 6/30/2004

<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>
<b><i>The College of Arts and Sciences</i></b>									
<i>Department of Art</i>									
<b>11718</b>	Danko-McGhee, Kath Slutsky, Ruslan Cryan, John	PI Co1 Co2	Arts and Early Learning Pilot	Michigan Campus Compact	\$1,000	\$0	\$1,975	\$1,250	\$4,225
<i>Summary for Department of Art (1 award)</i>									
<b>Sum</b>					\$1,000	\$0	\$1,975	\$1,250	\$4,225
<b>Percent</b>					0.00%	0.00%	0.08%	0.01%	0.01%
<i>Department of Biological Sciences</i>									
<b>12031</b>	Ashburner, Brian	PI	Isolation and Characterization of Novel NF-kappaB-interacting Proteins	American Cancer Society, Ohio Division	\$30,000	\$2,727	\$0	\$19,502	\$49,502
<b>11923</b>	Dong, Fan	PI	Negative Regulation of Signal Transduction by G-CSF	National Cancer Institute	\$17,403	\$5,147	\$0	\$0	\$17,403
<b>12542</b>	Dong, Fan	PI	Negative Regulation of Signal Transduction by G-CSF	National Cancer Institute	\$202,350	\$59,850	\$0	\$0	\$202,350

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<b>11977</b>	Duran, Emilio Komuniecki, Patricia	PI Co1	2004 Ohio Junior Sciences and Humanities Symposium	Academy of Applied Science	\$20,000	\$0	\$2,000	\$35,951	\$57,951
<b>12474</b>	Gray, John	PI	Biomonitoring of Nutritional and Environmental Stress in Plants	U.S. Department of Agriculture	\$141,315	\$12,847	\$0	\$58,205	\$199,520
<b>12117</b>	Komuniecki, Richard Komuniecki, Patricia	PI Co1	Volatile Acid Formation in Parasitic Helminths	National Institutes of Health	\$154,198	\$35,150	\$0	\$102,485	\$256,683
<b>12116</b>	Komuniecki, Richard Komuniecki, Patricia	PI Co1	Regulation of Pharyngeal Pumping in Parasitic Nematodes	National Institutes of Health	\$189,394	\$46,643	\$0	\$67,000	\$256,394
<b>12182</b>	Leaman, Douglas	PI	2-5A Antisense Targeting of Telomerase RNA	Ridgeway Biosystems	\$25,000	\$4,167	\$0	\$3,069	\$28,069
<b>12372</b>	Leaman, Douglas	PI	Molecular Mediators of Interferon-induced Apoptosis	National Cancer Institute	\$159,750	\$47,250	\$0	\$131,385	\$291,135
<b>11706</b>	Shemshedini, Lirim	PI	c-Jun and Androgen Signaling in Prostate Cancer Cells	National Institutes of Health	\$211,110	\$61,110	\$0	\$34,209	\$245,319
<b>12199</b>	Vestal, Deborah	PI	Role of mGBP-2 Interferon Responses	American Cancer Society	\$624,760	\$104,126	\$0	\$220,581	\$845,341
<i>Summary for Department of Biological Sciences (11 awards)</i>									
<b>Sum</b>					\$1,775,280	\$379,017	\$2,000	\$672,387	\$2,449,667
<b>Percent</b>					5.50%	8.92%	0.08%	4.90%	5.05%

### Department of Chemistry

<b>12191</b>	Funk, Max	PI	Lipoxygenase Catalysis and Lipid Metabolism	National Institutes of Health	\$237,140	\$67,182	\$0	\$73,322	\$310,462
<b>12041</b>	Giolando, Dean	PI	Spray Solution Precursors for Thin Films - Year 2	Engineering Glass Products	\$36,850	\$10,899	\$0	\$27,693	\$64,543
<b>12511</b>	Jorgensen, Andrew	PI	Initiation of Project Seed at UT	American Chemical Society	\$4,375	\$0	\$0	\$0	\$4,375
<b>12122</b>	Kirchoff, Jon	PI	New Methods for Evaluating Cholinergic Toxicity	National Institutes of Health	\$37,514	\$11,096	\$0	\$20,161	\$57,675
<b>12441</b>	Lind, Cora	PI	"Non-hydrolytic" Sol-gel Processing of Metal Sulfides	Ohio Board of Regents	\$9,850	\$0	\$0	\$0	\$9,850

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12143	Mason, Mark	PI	Reactivity of Carbon Monoxide with Organoaluminum and Organogallium Reagents	National Science Foundation	\$100,000	\$29,577	\$0	\$45,082	\$145,082
11917	Mueser, Timothy	PI	CAREER: Structural Analysis of Branched DNA Recognition	National Science Foundation	\$130,000	\$38,451	\$0	\$39,624	\$169,624
12554	Mueser, Timothy	PI	Crystallographic Studies of the Crenarchaeal Aeropyrum Pernix Flap Endonuclease 1 (FEN-1)	Ohio American Heart Association	\$18,000	\$0	\$0	\$14,654	\$32,654
11818	Pinkerton, Alan Averill, Bruce Giolando, Dean Lind, Cora Mueser, Timothy Viola, Ronald	PI Co1 Co2 Co3 Co4 Co5	Acquisition of a Powder X-Ray Diffractometer	National Science Foundation	\$173,179	\$0	\$0	\$73,179	\$246,358
12256	Pinkerton, Alan	PI	Energetic Materials: An Advanced Crystallographic Study	Office of Naval Research	\$56,365	\$16,671	\$0	\$29,261	\$85,626
11419	Viola, Ronald	PI	Collaborative Research of Proton Transfer in Enzymes: A Synergetic Theoretical-Experimental Approach	National Science Foundation	\$55,016	\$16,272	\$0	\$33,749	\$88,765
11597	Viola, Ronald	PI	Macromolecular Crystallography Consortium	Ohio Board of Regents	\$941,600	\$0	\$300,000	\$584,511	\$1,826,111
<i>Summary for Department of Chemistry (12 awards)</i>									
<b>Sum</b>					\$1,799,889	\$190,148	\$300,000	\$941,236	\$3,041,125
<b>Percent</b>					5.57%	4.47%	12.31%	6.86%	6.27%

*Department of Earth, Ecological and Environmental Sciences*

11546	Bridgeman, Thomas	PI	Maumee Bay and Western Lake Erie Water Quality Monitoring	Lake Erie Protection Fund	\$55,391	\$5,036	\$0	\$56,004	\$111,395
11947	Chen, Jiquan	PI	Cumulative Carbon Flux at Managed Landscapes in Northern Wisconsin Year 2	USDA Forest Service	\$40,000	\$0	\$0	\$18,421	\$58,421
11428	Chen, Jiquan Zheng, Daolan	PI Co1	Aboveground Biomass Estimation Using Field Data, Satellite Remote Sensing, and GIS	USDA Forest Service	\$3,000	\$0	\$0	\$7,499	\$10,499

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<b>12414</b>	Chen, Jiquan Noormets, Asko	PI Co1	Coupling the Effects of Management and Climate on Carbon and Water Fluxes in the Forests of Eastern U.S. and P.R.C.	USDA Forest Service	\$42,418	\$3,964	\$0	\$0	\$42,418
<b>12015</b>	Chen, Jiquan Moorhead, Daryl	PI Co1	Carbon Flux and Storage in Mixed Oak Forests of the Ozark Landscape	Missouri Department of Conservation	\$41,424	\$0	\$0	\$32,968	\$74,392
<b>12157</b>	Chen, Jiquan Zheng, Daolan	PI Co1	Aboveground Biomass Estimation Using Field Data, Satellite Remote Sensing, and GIS	USDA Forest Service	\$1,400	\$0	\$0	\$588	\$1,988
<b>11824</b>	Chen, Jiquan Noormets, Asko	PI Co1	Coupling the Effects of Management and Climate on Carbon and Water Fluxes in the Forests of Eastern U.S. and P.R.C.	USDA Forest Service	\$225,177	\$14,731	\$0	\$94,607	\$319,784
<b>12308</b>	Chen, Jiquan Noormets, Asko	PI Co1	Coupling the Effects of Management and Climate on Carbon and Water Fluxes in the Forests of Eastern U.S. and P.R.C.	USDA Forest Service	\$251,610	\$16,460	\$0	\$121,075	\$372,685
<b>11804</b>	Dwyer, Daryl	PI	Phytoremediation Plant Research Year 2	Ohio State University Research Foundation	\$229,043	\$0	\$0	\$74,761	\$303,804
<b>12329</b>	Dwyer, Daryl Spongberg, Alison Krantz, David Sigler, William	PI Co1 Co2 Co3	Phytoremediation Plant Research Year 2	U.S. Department of Agriculture	\$532,233	\$157,421	\$0	\$226,088	\$758,321
<b>11661</b>	Dwyer, Daryl Spongberg, Alison Krantz, David Sigler, William	PI Co1 Co2 Co3	Phytoremediation Plant Research Year 1	U.S. Department of Agriculture	\$595,146	\$157,100	\$0	\$202,192	\$797,338
<b>12104</b>	Fisher, Timothy	PI	Assessing a Possible Cause of Abrupt Climate Change: Timing of Glacial Lake Agassiz Drainage	Comer Science & Education Foundation	\$119,976	\$0	\$0	\$130,928	\$250,904
<b>11506</b>	Goldman, Stephen Rudrabhatla, Sairam	PI Co1	Germplasm Development in Forage Grasses	U.S. Department of Agriculture	\$92,992	\$11,776	\$0	\$40,034	\$133,026
<b>11829</b>	Heckathorn, Scott	PI	CO2 Induced Changes in Heat-Shock Proteins and Photosynthetic Tolerance to Acute Heat Stress	National Science Foundation	\$271,169	\$80,205	\$0	\$95,957	\$367,126
<b>12204</b>	Heckathorn, Scott	PI	Collaborative Research: Ecological Physiology of Plant Chloroplast Small Heat-Shock Proteins	National Science Foundation	\$38,607	\$11,419	\$0	\$20,694	\$59,301

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12442	Mayer, Christine	PI	Assessing Human-Driven Perturbations of Production in Western Lake Erie	Ohio Board of Regents	\$8,029	\$0	\$0	\$0	\$8,029
12426	Moorhead, Daryl	PI	The Role of Natural Legacy on Ecosystem Structure and Function in a Polar Desert: The McMurdo Dry Valley	Ohio State University Research Foundation	\$49,508	\$11,760	\$0	\$0	\$49,508
11654	Moorhead, Daryl	PI	Mechanisms Controlling Soil Carbon Sequestration Under Atmospheric N Deposition	University of New Mexico	\$17,955	\$5,311	\$0	\$7,482	\$25,437
12355	Neher, Deborah	PI	Effects of Altered Temperature and Precipitation on Soil Bacterial and Microfaunal Communities as Mediated by Biological Soil Crusts - 2	U.S. Department of Energy	\$94,980	\$28,093	\$0	\$46,575	\$141,555
11535	Neher, Deborah	PI	Effects of Coleopteran-Active Bt Corn on Multiple Trophic Levels in Soil Communities	U.S. Department of Agriculture	\$92,225	\$17,522	\$0	\$16,962	\$109,187
11510	Rudrabhatla, Sairam Goldman, Stephen	PI Co1	Genetic Engineering for Drought Tolerance in Corn (Zea Mays) Using HVA1 Gene	Ohio Plant Biotechnology Consortium	\$50,500	\$0	\$0	\$54,955	\$105,455
10943	Sinsabaugh, Robert	PI	Enzyme Analysis	University of Washington	\$1,420	\$420	\$0	\$0	\$1,420
12275	Spongberg, Alison Czajkowski, Kevin	PI Co1	Distance Learning Course in Earth Science and Space Science Concepts for In-Service Teachers	Ohio Board of Regents	\$60,656	\$856	\$0	\$3,422	\$64,078
12125	Tramer, Elliot Rop, Charles	PI Co1	Summer Institute in Plant Science	Ohio Board of Regents	\$63,814	\$4,727	\$0	\$53,854	\$117,668
12260	Tramer, Elliot	PI	Conserving Herpetofaunal Communities in Agroecosystems	Ohio Biological Survey	\$500	\$0	\$0	\$0	\$500

*Summary for Department of Earth, Ecological and Environmental Sciences (25 awards)*

<b>Sum</b>					\$2,979,173	\$526,801	\$0	\$1,305,066	\$4,284,239
<b>Percent</b>					9.22%	12.40%	0.00%	9.51%	8.84%

*Department of Economics*

12139	LeSage, James	PI	Methodological Issues Involving Research Use of the ES202 Data	Cleveland State University	\$5,000	\$0	\$0	\$9,568	\$14,568
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<b>11858</b>	LeSage, James	PI	Collaborative Research: Spatially Additive and Discrete-Choice Spatial Models	National Science Foundation	\$47,934	\$14,178	\$0	\$70,164	\$118,098
<i>Summary for Department of Economics (2 awards)</i>									
<b>Sum</b>					\$52,934	\$14,178	\$0	\$79,732	\$132,666
<b>Percent</b>					0.16%	0.33%	0.00%	0.58%	0.27%
 <i>Department of Foreign Languages</i>									
<b>12501</b>	Hara, Joseph	PI	Japanese Language School of Toledo	Japanese School of Toledo	\$17,560	\$0	\$0	\$0	\$17,560
<b>11807</b>	Varela, Antonio	PI	Japanese Language School of Toledo	Japanese School of Toledo	\$1,748	\$0	\$0	\$0	\$1,748
<i>Summary for Department of Foreign Languages (2 awards)</i>									
<b>Sum</b>					\$19,308	\$0	\$0	\$0	\$19,308
<b>Percent</b>					0.06%	0.00%	0.00%	0.00%	0.04%
 <i>Department of Geography and Planning</i>									
<b>11694</b>	Attoh, Samuel Lindquist, Peter	PI Co1	Minority Engineering Firm Capacity Building in GIS	Black & Veatch Ltd. of Ohio	\$190,700	\$56,404	\$0	\$58,862	\$249,562
<b>11833</b>	Attoh, Samuel	PI	Internship Contract Between Geography and Planning and Toledo Area Council of Churches: Hunger Task Force Project	Toledo Area Council of Churches	\$10,250	\$10,250	\$0	\$25,868	\$36,118
<b>12309</b>	Chen, Jiquan Noormets, Asko	PI Co1	Coupling the Effects of Management and Climate on Carbon and Water Fluxes in the Forests of Eastern U.S. and P.R.C.	Ohio Board of Regents	\$60,000	\$0	\$0	\$120,000	\$180,000
<b>12112</b>	Czajkowski, Kevin Spongberg, Alison	PI Co1	Earth System Science Education Alliance	Institute for Global Environmental Strategies	\$9,845	\$1,877	\$0	\$4,652	\$14,497
<b>11778</b>	Czajkowski, Kevin	PI	OhioView: Reaching Out in Ohio	Ohio Aerospace Institute	\$43,887	\$9,791	\$0	\$6,010	\$49,897
<b>11739</b>	Czajkowski, Kevin	PI	Development and Validation of a Turbidity Product for Lake Erie: GLERL's Coast Watch Satellite Program	Great Lakes Environmental Research Lab	\$10,000	\$2,958	\$0	\$1,000	\$11,000

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12287	Czajkowski, Kevin	PI	Mapping with Multi-Temporal Satellite Imagery	Great Lakes Commission	\$41,127	\$5,234	\$0	\$20,072	\$61,199
12290	Czajkowski, Kevin Spongberg, Alison Templin, Mark	PI Co1 Co2	Energy and Earth Systems: GLOBE Protocol Research and Outreach	National Science Foundation	\$107,684	\$31,850	\$0	\$20,454	\$128,138
12324	Czajkowski, Kevin Spongberg, Alison	PI Co1	An Integrated Assessment of Physical, Ecological, and Socio-economic Aspects of a Watershed System	National Science Foundation	\$62,230	\$7,500	\$0	\$10,223	\$72,453
12370	Czajkowski, Kevin	PI	Monitoring Agricultural Sewage Sludge Application, OH	U.S. Department of Agriculture	\$1,004,916	\$150,408	\$0	\$88,107	\$1,093,023
11800	Czajkowski, Kevin Spongberg, Alison Templin, Mark	PI Co1 Co2	Energy and Earth Systems: GLOBE Protocol Research and Outreach	National Science Foundation	\$106,182	\$31,406	\$0	\$19,857	\$126,039
11826	Lawrence, Patrick	PI	GIS and Remote Sensing Application for Wetlands Classification and Inventory in the Maumee AOC	Natural Areas Stewardship, Inc.	\$6,865	\$624	\$0	\$19,052	\$25,917
11839	Reid, Neil Lindquist, Peter	PI Co1	Northwest Ohio's Greenhouse Nursery Industry	Ohio State University	\$49,076	\$0	\$0	\$15,572	\$64,648
12060	Reid, Neil	PI	Graduate Student Internship	Toledo Metropolitan Area Council of Governments	\$7,480	\$0	\$0	\$15,062	\$22,542
12042	Reid, Neil	PI	Graduate Student Internship	Toledo Metropolitan Area Council of Governments	\$3,520	\$0	\$0	\$8,637	\$12,157
12479	Shove, Christopher Ault, Timothy	PI Co1	Metropolitan Planning Service Learning	City of Monroe	\$4,998	\$1,478	\$0	\$9,334	\$14,332
11765	Shove, Christopher Lindquist, Peter	PI Co1	Spatial Analysis & GIS Data Creation	Sylvania Township	\$15,331	\$4,534	\$0	\$12,378	\$27,709
11745	Wasielowski, Norine	PI	The University of Toledo's Alcohol & Substance Abuse Program	Alcohol and Drug Addiction Services of Lucas County	\$25,000	\$0	\$0	\$20,214	\$45,214

Summary for Department of Geography and Planning (18 awards)

<b>Sum</b>					\$1,759,091	\$314,314	\$0	\$475,354	\$2,234,445
<b>Percent</b>					5.45%	7.40%	0.00%	3.46%	4.61%

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<i>Department of Mathematics</i>									
<b>11172</b>	Thomas, William Templin, Mark	PI Co1	Project INFUSE	Ohio State University	\$80,000	\$5,926	\$0	\$80,239	\$160,239
<b>11476</b>	White, Donald	PI	Concentration-Time-Effect Modeling of Agent Combinations	Health Research, Inc.	\$21,882	\$6,472	\$0	\$0	\$21,882
<b>12196</b>	Zhang, Biao	PI	A Semiparametric Approach to Finite Mixture Models	National Security Agency	\$13,000	\$1,696	\$0	\$0	\$13,000
<i>Summary for Department of Mathematics (3 awards)</i>									
<b>Sum</b>					\$114,882	\$14,094	\$0	\$80,239	\$195,121
<b>Percent</b>					0.36%	0.33%	0.00%	0.58%	0.40%

*Department of Physics and Astronomy*

<b>12207</b>	Amar, Jacques Bjorkman, Jon Theodosiou, Constanti Gao, Bo Irving, Richard	PI Co1 Co2 Co3 Co4	Acquisition of an AMD Cluster for Advanced Computational Modeling in Physics & Astronomy	Ohio Supercomputer	\$100,000	\$0	\$0	\$14,214	\$114,214
<b>11642</b>	Compaan, Alvin Collins, Robert Karpov, Victor Giolando, Dean	PI Co1 Co2 Co3	Sputtered II-VI Alloys and Structures for Tandem PV	National Renewable Energy Laboratory	\$20,000	\$8,400	\$0	\$124,362	\$144,362
<b>11470</b>	Compaan, Alvin Gupta, Akhlesh	PI Co1	P-Type CdSe for Thin-Film Cells Enabling High-Efficiency Monolithic Tandem Photovoltaics	ITN Energy Systems Inc.	\$50,000	\$14,789	\$0	\$0	\$50,000
<b>12392</b>	Compaan, Alvin Collins, Robert Karpov, Victor Giolando, Dean	PI Co1 Co2 Co3	Sputtered II-VI Alloys and Structures for Tandem PV	National Renewable Energy Laboratory	\$175,000	\$51,760	\$0	\$0	\$175,000

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<b>12320</b>	Compaan, Alvin Karpov, Victor Bohn, Randy Deng, Xunming Giolando, Dean	PI Co1 Co2 Co3 Co4	The Fabrication and Physics of High Efficiency Cadmium-Telluride Thin-Film Solar Cells	National Renewable Energy Laboratory	\$138,446	\$40,949	\$0	\$0	\$138,446
<b>11975</b>	Compaan, Alvin Karpov, Victor Bohn, Randy Deng, Xunming Giolando, Dean	PI Co1 Co2 Co3 Co4	The Fabrication and Physics of High Efficiency Cadmium-Telluride Thin-Film Solar Cells	National Renewable Energy Laboratory	\$64,000	\$18,930	\$0	\$142,241	\$206,241
<b>12138</b>	Compaan, Alvin	PI	Development of On-Line Diagnostics	First Solar, LLC	\$15,805	\$4,675	\$0	\$6,673	\$22,478
<b>11967</b>	Compaan, Alvin Giolando, Dean Deng, Xunming Karpov, Victor	PI Co1 Co2 Co3	Center for Photovoltaic Electricity and Hydrogen	Ohio Department of Development	\$2,000,000	\$0	\$840,225	\$99,535	\$2,939,760
<b>12317</b>	Compaan, Alvin Karpov, Victor Bohn, Randy Deng, Xunming Giolando, Dean	PI Co1 Co2 Co3 Co4	The Fabrication and Physics of High Efficiency Cadmium-Telluride Thin-Film Solar Cells	National Renewable Energy Laboratory	\$64,000	\$18,930	\$0	\$0	\$64,000
<b>12168</b>	Deng, Xunming Compaan, Alvin Karpov, Victor	PI Co1 Co2	High Efficiency and High-Rate Deposited Amorphous Silicon-Based Solar Cells	National Renewable Energy Laboratory	\$53,999	\$15,972	\$0	\$0	\$53,999
<b>11451</b>	Deng, Xunming	PI	Amorphous Silicon Based Neutron Detector	Midwest Optoelectronics LLC	\$19,000	\$5,620	\$0	\$12,404	\$31,404
<b>11769</b>	Deng, Xunming Compaan, Alvin Coleman, Maria	PI Co1 Co2	Photovoltaic Hydrogen for Portable, On-Demand Power	Universal Technology Corporation	\$810,000	\$201,176	\$0	\$176,789	\$986,789
<b>12311</b>	Deng, Xunming Compaan, Alvin Karpov, Victor	PI Co1 Co2	High Efficiency and High-Rate Deposited Amorphous Silicon-Based Solar Cells	National Renewable Energy Laboratory	\$113,000	\$33,422	\$0	\$0	\$113,000
<b>11484</b>	Federman, Steven	PI	Surveying Interstellar Carbon Monoxide Via Ultraviolet Absorption	Space Telescope Science Institute	\$107,417	\$31,771	\$0	\$40,801	\$148,218

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<b>12213</b>	Federman, Steven	PI	Oscillator Strengths for Ultraviolet Atomic and Molecular Transitions	NASA Goddard Space Flight Center	\$80,000	\$20,734	\$0	\$36,402	\$116,402
<b>11809</b>	Federman, Steven	PI	FUSE Observations of Molecular Hydrogen in the Interstellar Medium	NASA Headquarters	\$53,815	\$15,917	\$0	\$13,425	\$67,240
<b>11844</b>	Gao, Bo	PI	Theory and Applications of Cold-Atom Collisions	National Science Foundation	\$40,000	\$11,831	\$0	\$22,622	\$62,622
<b>11795</b>	James, Philip	PI	OH Prompt Emission in Comets	NASA Goddard Space Flight Center	\$1,700	\$0	\$0	\$0	\$1,700
<b>12404</b>	James, Philip	PI	Behavior of Clouds and Polar Condensates on Mars	Jet Propulsion Laboratory	\$10,000	\$0	\$0	\$0	\$10,000
<b>11553</b>	James, Philip	PI	Seasonal Behavior of Condensates in the Polar Regions of Mars	Jet Propulsion Laboratory	\$87,999	\$26,028	\$0	\$40,376	\$128,375
<b>11950</b>	James, Philip	PI	MARCI / CTX	Malin Space Science System	\$72,685	\$14,999	\$0	\$60,022	\$132,707
<b>11960</b>	James, Philip	PI	OH Prompt Emission in Comets	NASA Goddard Space Flight Center	\$33,182	\$0	\$0	\$29,178	\$62,360
<b>11663</b>	James, Philip	PI	Ozone, Condensates, and Dust in the Martian Atmosphere	Space Telescope Science Institute	\$23,275	\$6,883	\$0	\$20,011	\$43,286
<b>11987</b>	Kvale, Thomas Lukaszew, Rosa	PI Co1	Research Experiences for Undergraduates in Physics and Astronomy	National Science Foundation	\$70,000	\$7,000	\$3,500	\$29,821	\$103,321
<b>11915</b>	Lukaszew, Rosa	PI	Alternative Use of Photonic Crystals to Allow Low Loss of Visible Light	Wayne State University	\$40,000	\$0	\$0	\$62,589	\$102,589
<b>11988</b>	Lukaszew, Rosa	PI	Highly Anisotropic Nano-Magnets	National Science Foundation	\$63,522	\$17,605	\$0	\$32,193	\$95,715
<b>11815</b>	Lukaszew, Rosa	PI	Magneto-Transport Studies on Chemically Ordered Alloys	National Science Foundation	\$4,000	\$0	\$0	\$0	\$4,000
<b>11969</b>	Lukaszew, Rosa	PI	Investigating the Structural and Magnetic Properties of Nano-Magnets	Research Corporation	\$75,000	\$0	\$0	\$77,165	\$152,165
<b>11581</b>	Theodosiou, Constanti	PI	The Ohio Science and Engineering Alliance	Ohio State University	\$15,838	\$3,322	\$0	\$21,040	\$36,878
<b>12314</b>	Witt, Adolf	PI	Interstellar Dust in Galaxies (LTSA-99)	NASA Goddard Space Flight Center	\$102,289	\$25,809	\$0	\$53,241	\$155,530

<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>
<b>12528</b>	Witt, Adolf	PI	The Smallest Interstellar Grains: Optical/Near-IR Emission from Nanoparticles	National Science Foundation	\$84,956	\$24,329	\$0	\$62,782	\$147,738
<b>11330</b>	Witt, Adolf	PI	The Smallest Interstellar Grains: Optical/Near-IR Emission from Nanoparticles	National Science Foundation	\$82,030	\$23,464	\$0	\$59,830	\$141,860
<i>Summary for Department of Physics and Astronomy (32 awards)</i>									
<b>Sum</b>					\$4,670,958	\$644,315	\$843,725	\$1,237,716	\$6,752,399
<b>Percent</b>					14.46%	15.16%	34.61%	9.02%	13.93%

*Department of Political Science and Public Administration*

<b>12202</b>	Bachelor, Lynn	PI	City of Northwood Internship	City of Northwood	\$4,586	\$0	\$0	\$5,881	\$10,467
<b>11955</b>	Wilson, Carter	PI	Evaluation	Toledo Hospital	\$13,000	\$291	\$0	\$18,827	\$31,827
<i>Summary for Department of Political Science and Public Administration (2 awards)</i>									
<b>Sum</b>					\$17,586	\$291	\$0	\$24,708	\$42,294
<b>Percent</b>					0.05%	0.01%	0.00%	0.18%	0.09%

*Department of Psychology*

<b>11838</b>	Bullock, Wesley	PI	Community Externship Program	Toledo Hospital	\$1,121	\$0	\$0	\$5,281	\$6,402
<b>11701</b>	Bullock, Wesley	PI	Community Externship Program	Harbor Behavioral Health Care	\$13,349	\$0	\$0	\$24,143	\$37,492
<b>11840</b>	Bullock, Wesley	PI	Community Externship Program	Harbor Behavioral Health Care	\$11,209	\$0	\$0	\$19,149	\$30,358
<b>11703</b>	Bullock, Wesley	PI	Community Externship Program	Lucas County Juvenile Court	\$13,349	\$0	\$0	\$29,828	\$43,177
<b>11704</b>	Bullock, Wesley	PI	Community Externship Program	Lucas County Juvenile Court	\$1,070	\$0	\$0	\$7,618	\$8,688
<b>11699</b>	Bullock, Wesley	PI	Community Externship Program	Unison Behavioral Health	\$1,070	\$0	\$0	\$5,617	\$6,687
<b>11698</b>	Bullock, Wesley	PI	Community Externship Program	Unison Behavioral Health	\$6,674	\$0	\$0	\$21,340	\$28,014

<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>
<b>12397</b>	Bullock, Wesley	PI	Effect of the Illness Management and Recovery Program Compared with Usual Mental Health Services	Ohio Department of Mental Health	\$34,354	\$3,850	\$0	\$20,601	\$54,955
<b>11659</b>	Bullock, Wesley Funk, Jeanne	PI Co1	Clinical Training Grant: Integration of Academic Clinical Training with Public Mental Health Service	Ohio Department of Mental Health	\$23,621	\$1,181	\$0	\$33,579	\$57,200
<b>11700</b>	Elliott, Robert	PI	Community Externship Program	Central Behavioral Health Care	\$5,350	\$0	\$0	\$17,177	\$22,527
<b>12172</b>	Elliott, Robert	PI	Community Externship	Patsy Suter, Ph.D.	\$2,675	\$0	\$0	\$14,248	\$16,923
<b>11478</b>	Fulkerson, Anne	PI	The Influence of Naming on Categorization in Infancy	National Institutes of Health	\$142,000	\$42,000	\$0	\$28,400	\$170,400
<b>12502</b>	Funk, Jeanne	PI	Community Externship Program	Harbor Behavioral Health Care	\$13,451	\$0	\$0	\$25,396	\$38,847
<b>12506</b>	Funk, Jeanne	PI	Community Externship Program	Harbor Behavioral Health Care	\$2,242	\$0	\$0	\$8,857	\$11,099
<b>12505</b>	Funk, Jeanne	PI	Community Externship Program	Unison Behavioral Health	\$7,846	\$0	\$0	\$23,042	\$30,888
<b>12504</b>	Funk, Jeanne	PI	Community Externship Program	Medical College of Ohio	\$13,451	\$0	\$0	\$25,396	\$38,847
<b>12522</b>	Funk, Jeanne	PI	Community Externship Program	Harbor Behavioral Health Care	\$13,451	\$0	\$0	\$25,396	\$38,847
<b>11702</b>	Funk, Jeanne	PI	Community Externship	Medical College of Ohio	\$13,349	\$0	\$0	\$24,412	\$37,761
<b>11974</b>	Heffner, Henry	PI	Central Mechanisms Related to Tinnitus	Wayne State University	\$122,027	\$26,997	\$0	\$28,164	\$150,191
<b>12529</b>	Jasper, John Christman, Stephen	PI Co1	Handedness Differences in Belief Updating	National Science Foundation	\$49,931	\$14,768	\$0	\$0	\$49,931

*Summary for Department of Psychology (20 awards)*

<b>Sum</b>					\$491,590	\$88,796	\$0	\$387,644	\$879,234
<b>Percent</b>					1.52%	2.09%	0.00%	2.82%	1.81%

*Department of Sociology, Anthropology, and Social Work*

<b>12403</b>	Patterson, Ruben	PI	Perspectives of Global Development and Technology	Brill Academic Publishers	\$6,000	\$369	\$0	\$5,350	\$11,350
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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 Sociology, Anthropology, and Social Work (1 award)</i>									
<b>Sum</b>					\$6,000	\$369	\$0	\$5,350	\$11,350
<b>Percent</b>					0.02%	0.01%	0.00%	0.04%	0.02%

*The Humanities Institute*

<b>12156</b>	Ray, Roger Blatz, Charles	PI Co1	Needs of Humanities 2000	Clement O. Miniger Memorial Foundation	\$21,000	\$0	\$30,000	\$46,130	\$97,130
<i>Summary for The Humanities Institute (1 award)</i>									
<b>Sum</b>					\$21,000	\$0	\$30,000	\$46,130	\$97,130
<b>Percent</b>					0.07%	0.00%	1.23%	0.34%	0.20%

*The Writing Center*

<b>12363</b>	Mullin, Joan	PI	Ohio WINS Summer Institute for Teachers	Ohio Board of Regents	\$45,000	\$0	\$0	\$6,300	\$51,300
<i>Summary for The Writing Center (1 award)</i>									
<b>Sum</b>					\$45,000	\$0	\$0	\$6,300	\$51,300
<b>Percent</b>					0.14%	0.00%	0.00%	0.05%	0.11%

*Number of Awards for The College of Arts and Sciences = 131*

<b>Sum</b>					<b>\$13,753,691</b>	\$2,172,323	<b>\$1,177,700</b>	<b>\$5,263,112</b>	<b>\$20,194,503</b>
<b>Percent</b>					<b>42.57%</b>	51.12%	<b>48.31%</b>	<b>38.35%</b>	<b>41.67%</b>

***The College of Business Administration***

*Administration, College of Business Administration*

<b>12550</b>	Beeman, Don	PI	International Business Institute	Ohio Board of Regents	\$174,065	\$0	\$0	\$0	\$174,065
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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 Administration, College of Business Administration (1 award)</i>									
<b>Sum</b>					\$174,065	\$0	\$0	\$0	\$174,065
<b>Percent</b>					0.54%	0.00%	0.00%	0.00%	0.36%

*Department of Management*

<b>11727</b>	Vonderembse, Mark Lindquist, Peter Gupta, Jiwan	PI Co1 Co2	Upper Midwest States Freight Corridor Study	Midwest Regional University Transportation Center	\$30,210	\$5,692	\$0	\$71,598	\$101,808
<b>12136</b>	Vonderembse, Mark Lindquist, Peter Gupta, Jiwan	PI Co1 Co2	Upper Midwest States Freight Corridor Study	Midwest Regional University Transportation Center	\$68,828	\$12,409	\$0	\$10,576	\$79,404
<b>12024</b>	Vonderembse, Mark	PI	Strategies and Innovative Procedures for Dynamic Partnering for the Forging Supply Chain	Advanced Technology Institute	\$29,000	\$8,578	\$0	\$25,123	\$54,123
<b>12267</b>	Vonderembse, Mark	PI	Strategies and Innovative Procedures for Dynamic Partnering for the Forging Supply Chain	Advanced Technology Institute	\$31,800	\$9,405	\$0	\$27,865	\$59,665

*Summary for Department of Management (4 awards)*

<b>Sum</b>					\$159,838	\$36,084	\$0	\$135,162	\$295,000
<b>Percent</b>					0.49%	0.85%	0.00%	0.98%	0.61%

*Finance and Business Economics*

<b>11982</b>	Kozlowski, Paul McGuire, Patrick	PI Co1	Payroll Tax Revenue Projection for the City of Toledo	City of Toledo	\$4,938	\$449	\$0	\$10,385	\$15,323
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*Summary for Finance and Business Economics (1 award)*

<b>Sum</b>					\$4,938	\$449	\$0	\$10,385	\$15,323
<b>Percent</b>					0.02%	0.01%	0.00%	0.08%	0.03%

*Northwest Ohio Center for Labor-Management Cooperation*

<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>
12127	Fitts, Martin	PI	Toledo Labor-Management-Citizens Committee	City of Toledo	\$131,804	\$6,533	\$0	\$46,081	\$177,885
12448	Simon, Sandra	PI	Northwest Ohio Center for the Advancement of Labor-Management Cooperation	Ohio Department of Development	\$95,000	\$7,037	\$135,000	\$29,907	\$259,907
11660	Simon, Sandra	PI	Northwest Ohio Center for the Advancement of Labor-Management Cooperation	Ohio Department of Development	\$93,000	\$6,889	\$135,000	\$29,278	\$257,278

*Summary for Northwest Ohio Center for Labor-Management Cooperation (3 awards)*

<b>Sum</b>					\$319,804	\$20,459	\$270,000	\$105,266	\$695,070
<b>Percent</b>					0.99%	0.48%	11.08%	0.77%	1.43%

*Number of Awards for The College of Business Administration = 9*

<b>Sum</b>					<b>\$658,645</b>	\$56,992	<b>\$270,000</b>	<b>\$250,813</b>	<b>\$1,179,458</b>
<b>Percent</b>					<b>2.04%</b>	1.34%	<b>11.08%</b>	<b>1.83%</b>	<b>2.43%</b>

## *The College of Education*

### *Administration, College of Education*

12101	Keil, Virginia	PI	North/Northwest Ohio Title II Regional Conference	Ohio Board of Regents	\$6,000	\$0	\$0	\$0	\$6,000
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*Summary for Administration, College of Education (1 award)*

<b>Sum</b>					\$6,000	\$0	\$0	\$0	\$6,000
<b>Percent</b>					0.02%	0.00%	0.00%	0.00%	0.01%

### *Department of Curriculum and Instruction*

12322	Carr, Eileen Patberg, Judythe	PI Co1	Literacy Education Partnership Field Faculty Network Structure	John Carroll University	\$87,534	\$6,484	\$0	\$33,876	\$121,410
11924	Hubaker, Paul	PI	Capacity-Building Faculty Support Grant	Ohio Department of Education	\$88,000	\$1,481	\$0	\$65,811	\$153,811

<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>
<b>11853</b>	Hubaker, Paul	PI	College Tech Prep Curriculum Service Center	Ohio Department of Education	\$358,000	\$26,519	\$0	\$112,704	\$470,704
<b>11418</b>	Sandmann, Alexa	PI	Toledo Area Writing Project	Toledo Public Schools	\$30,000	\$0	\$0	\$4,620	\$34,620
<b>12180</b>	Sandmann, Alexa Denyer, Jenny	PI Co1	2004 Application for Continued Funding	National Writing Project	\$43,000	\$0	\$30,000	\$66,645	\$139,645
<b>12471</b>	Schneider, Rebecca	PI	Middle School Science Curriculum Materials: Meeting Standards and Fostering Inquiry through Project-Based Inquiry Science Units	Georgia Institute of Technology	\$74,539	\$22,047	\$0	\$5,548	\$80,087
<b>11331</b>	Schultz, Robert	PI	2003 Summer Honors Institute for Gifted Students	Ohio Department of Education	\$62,500	\$0	\$0	\$25,983	\$88,483
<b>12153</b>	Schultz, Robert	PI	2004 Summer Honors Institute for Gifted Students	Ohio Department of Education	\$62,500	\$0	\$0	\$26,022	\$88,522
<b>12200</b>	Templin, Mark Czerniak, Charlene Thomas, William	PI Co1 Co2	Northwest Ohio Center of Science and Mathematics Education - Year 2	Bowling Green State University	\$73,500	\$5,444	\$0	\$73,707	\$147,207

*Summary for Department of Curriculum and Instruction (9 awards)*

<b>Sum</b>					\$879,573	\$61,975	\$30,000	\$414,916	\$1,324,489
<b>Percent</b>					2.72%	1.46%	1.23%	3.02%	2.73%

### *Department of Educational Leadership*

<b>12010</b>	Opp, Ronald	PI	Lorain County Community College Presidential Fellowship	Lorain County Community College	\$11,252	\$0	\$0	\$38,543	\$49,795
<b>12012</b>	Opp, Ronald	PI	Owens Community College Presidential Fellowship	Owens Community College	\$11,252	\$0	\$0	\$38,543	\$49,795
<b>12233</b>	Opp, Ronald	PI	Ohio Northern Internship	Ohio Northern University	\$7,584	\$0	\$0	\$17,009	\$24,593
<b>12026</b>	Opp, Ronald	PI	Wayne County Community College Presidential Fellowship	Wayne County Community College	\$21,442	\$0	\$0	\$28,353	\$49,795
<b>12011</b>	Opp, Ronald	PI	Northwest State Community College Presidential Fellowship	Northwest State Community College	\$11,252	\$0	\$0	\$38,543	\$49,795

<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 Educational Leadership (5 awards)</i>									
<b>Sum</b>					\$62,782	\$0	\$0	\$160,991	\$223,773
<b>Percent</b>					0.19%	0.00%	0.00%	1.17%	0.46%

*Early Childhood, Physical, and Special Education*

<b>12375</b>	Devlin, Patricia	PI	Career Exploration Program	Lucas County Board of Mental Retardation & Developmental Disabilities	\$3,110	\$283	\$2,503	\$12,398	\$18,011
<b>12463</b>	Devlin, Patricia	PI	Project 100 @ Central Catholic High School - Graduate Internships	Central Catholic High School	\$18,697	\$1,700	\$0	\$31,419	\$50,116
<b>11953</b>	Devlin, Patricia	PI	Central Catholic High School Graduate Assistant	Central Catholic High School	\$8,115	\$0	\$0	\$17,598	\$25,713
<b>11831</b>	Devlin, Patricia	PI	Project 100 @ Central Catholic High School - Graduate Internships	Central Catholic High School	\$7,863	\$0	\$0	\$17,598	\$25,461
<b>12419</b>	Dinnebeil, Laurie Atkins-Burnett, Sally Slutsky, Ruslan Wolodko, Brenda	PI Co1 Co2 Co3	Kindergarten Readiness Assessment in Literacy	Ohio Department of Education	\$309,107	\$66,803	\$0	\$45,945	\$355,052
<b>11958</b>	Gray, William	PI	Health South Graduate Assistant	Health South Sports Medicine & Rehabilitation	\$15,000	\$0	\$0	\$28,841	\$43,841
<b>11639</b>	Malakpa, Sakui	PI	The University of Toledo Vision Teacher Preparation Program	Ohio Department of Education	\$50,000	\$3,704	\$0	\$351	\$50,351
<b>11911</b>	Malakpa, Sakui	PI	The U.T. Post-secondary Education Support Project for Students with Disabilities	U.S. Department of Education	\$97,449	\$6,774	\$0	\$20,647	\$118,096
<b>12498</b>	Malakpa, Sakui	PI	The U.T. Post-secondary Education Support Project for Students with Disabilities	U.S. Department of Education	\$99,820	\$7,135	\$0	\$22,012	\$121,832
<b>12379</b>	McInerney, William Atkins-Burnett, Sally	PI Co1	Improving Preparation of Personnel to Serve Children with Low-Incidence Disabilities	U.S. Department of Education	\$275,000	\$6,858	\$0	\$13,670	\$288,670
<b>11927</b>	McInerney, William Dinnebeil, Laurie	PI Co1	Improving Preparation of Personnel to Serve Children with Low-Incidence Disabilities	U.S. Department of Education	\$275,000	\$6,397	\$0	\$15,431	\$290,431

<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>
<b>11724</b>	Slutsky, Ruslan Cryan, John Danko-McGhee, Kath	PI Co1 Co2	Action Planning for Service Learning	Michigan Campus Compact	\$1,000	\$0	\$1,585	\$2,835	\$5,420
<b>11913</b>	Teclehaimanot, Berha Cryan, John Benjamin, James	PI Co1 Co2	Teachers' Info-Port to Technology (TIPT)	U.S. Department of Education	\$286,471	\$21,220	\$0	\$298,242	\$584,713

*Summary for Early Childhood, Physical, and Special Education (13 awards)*

<b>Sum</b>					\$1,446,632	\$120,874	\$4,088	\$526,987	\$1,977,707
<b>Percent</b>					4.48%	2.84%	0.17%	3.84%	4.08%

*Number of Awards for The College of Education = 28*

<b>Sum</b>					<b>\$2,394,987</b>	\$182,849	<b>\$34,088</b>	<b>\$1,102,894</b>	<b>\$3,531,969</b>
<b>Percent</b>					<b>7.41%</b>	4.30%	<b>1.40%</b>	<b>8.04%</b>	<b>7.29%</b>

## *The College of Engineering*

### *Department of Bioengineering*

<b>11395</b>	Akkus, Ozan Goel, Vijay Relue, Patricia Hefzy, M.	PI Co1 Co2 Co3	Acoustic Emission Based Surveillance System for Prediction of Stress Fractures	U.S. Army Medical Research Acquisition Activity	\$199,179	\$58,912	\$0	\$119,448	\$318,627
<b>11944</b>	Cameron, Brent Goel, Vijay	PI Co1	Development of a "Smart" Spinal Disc Implant	AO Research Fund	\$45,764	\$0	\$0	\$101,131	\$146,895
<b>12390</b>	Goel, Vijay	PI	Consulting/Testing	Biomec, Inc.	\$1,500	\$444	\$0	\$0	\$1,500
<b>12276</b>	Goel, Vijay	PI	Evaluation of Cage in Torsion	Orthovita	\$5,000	\$833	\$0	\$0	\$5,000
<b>12164</b>	Goel, Vijay	PI	Adjacent Level Disease in the Lumbar Spine - A Finite Element Analysis and Cadaveric Study	DePuy AcroMed, Inc.	\$53,911	\$4,901	\$0	\$37,556	\$91,467
<b>12203</b>	Goel, Vijay	PI	Finite Element Analysis of the New Pedicle Screws	Spine Waves, Inc.	\$18,454	\$1,678	\$0	\$29,363	\$47,817

<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>
12399	Goel, Vijay	PI	Finite Element Analysis of the New Pedicle Screws	Theken Surgical, LLC	\$2,750	\$0	\$0	\$0	\$2,750
12068	Goel, Vijay	PI	DePuy AcroMed Fellowship	DePuy AcroMed, Inc.	\$10,000	\$0	\$0	\$0	\$10,000
11806	Goel, Vijay	PI	Biomechanics of Spinal Cages	Orthovita	\$1,773	\$0	\$0	\$0	\$1,773
11799	Goel, Vijay Pincivero, Danny	PI Co1	Development of a Golf-Specific Training and Conditioning Device	Turning Point, L.L.C.	\$28,600	\$8,459	\$0	\$0	\$28,600
12215	Goel, Vijay Akkus, Ozan	PI Co1	Compositional Measures for Diagnosis of Age-Related Skeletal Fracture Risk	Whitaker Foundation	\$73,789	\$10,925	\$0	\$53,697	\$127,486
11905	Goel, Vijay	PI	Effects of Hydrostatic Cyclic Loading on the Cell Scaffold System with and without Growth Factors	DePuy AcroMed, Inc.	\$38,499	\$3,500	\$0	\$30,505	\$69,004
11385	Goel, Vijay Cameron, Brent Kapoor, Vik	PI Co1 Co2	Artificial Disc Development	Theken Surgical, LLC	\$206,234	\$58,864	\$0	\$169,336	\$375,570
12325	Johnson, Jeffrey	PI	Simulation System for Coordinated Satellite Operation	NASA John H. Glenn Research Center at Lewis Field	\$44,001	\$6,393	\$0	\$0	\$44,001
11413	Kapoor, Vik	PI	A Microelectromechanical Loop Heat Pipe	NASA John H. Glenn Research Center at Lewis Field	\$24,000	\$0	\$0	\$19,209	\$43,209
12413	Molitor, Scott	PI	Electrophysiologic Properties of DCN Cartwheel Cells	National Institute on Deafness and Other Communication Disorders	\$71,000	\$21,000	\$0	\$64,468	\$135,468

Summary for Department of Bioengineering (16 awards)

<b>Sum</b>					\$824,454	\$175,909	\$0	\$624,713	\$1,449,167
<b>Percent</b>					2.55%	4.14%	0.00%	4.55%	2.99%

### Department of Chemical and Environmental Engineering

11551	Abraham, Martin Lipscomb, Glenn Coleman, Maria	PI Co1 Co2	Fuel Processing for Fuel Cell Applications	Case Western Reserve University	\$200,000	\$0	\$151,730	\$1,404,763	\$1,756,493
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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>
<b>12473</b>	Abraham, Martin Lipscomb, Glenn Coleman, Maria	PI Co1 Co2	Fuel Processing for Fuel Cell Applications	Case Western Reserve University	\$1,150,000	\$0	\$0	\$0	\$1,150,000
<b>12193</b>	Abraham, Martin	PI	Mini-proposal on Catalyst Deactivation	Catacel, Inc.	\$3,000	\$0	\$0	\$0	\$3,000
<b>12312</b>	Abraham, Martin Kim, Dong-Shik	PI Co1	Conversion of Waste Biomass to Hydrogen	EISC, Inc.	\$75,000	\$22,183	\$0	\$70,995	\$145,995
<b>12439</b>	Azad, Abdul-Majeed	PI	Fabrication of 1-Dimensional Ceramic Nanofibers Via Electrospinning	Ohio Board of Regents	\$9,850	\$0	\$0	\$0	\$9,850
<b>12234</b>	DeWitt, Kenneth	PI	Sulfur Oxidation and Contrail Precursor Chemistry	NASA John H. Glenn Research Center at Lewis Field	\$60,000	\$17,746	\$0	\$32,862	\$92,862
<b>11981</b>	DeWitt, Kenneth	PI	Ignition Characteristics of Aviation Fuels	NASA John H. Glenn Research Center at Lewis Field	\$100,000	\$21,260	\$0	\$41,207	\$141,207
<b>11948</b>	DeWitt, Kenneth Ng, Terry	PI Co1	Computational Fluid Dynamics Related to Phonation	Bowling Green State University	\$50,955	\$15,071	\$0	\$0	\$50,955
<b>12373</b>	DeWitt, Kenneth	PI	Ignition Characteristics of Aviation Fuels	NASA John H. Glenn Research Center at Lewis Field	\$102,896	\$21,876	\$0	\$0	\$102,896
<b>12438</b>	Dismukes, John	PI	Composite Process Modeling	National Composite Center	\$50,000	\$14,790	\$0	\$0	\$50,000
<b>12472</b>	Dismukes, John	PI	Addendum for Composite Process Modeling and Simulation 2003-2004	National Composite Center	\$11,000	\$2,200	\$0	\$13,191	\$24,191
<b>11962</b>	Escobar, Isabel Pickett, Mark	PI Co1	Special Funding for Engineering for Teachers of Migrant Students	Ohio Department of Education	\$55,000	\$0	\$0	\$0	\$55,000
<b>11572</b>	Escobar, Isabel Xu, Xinglong	PI Co1	Membrane Surface Modifications by Ion Beam Irradiation for Increasing Mass Transfer and Fouling Resistance	National Science Foundation	\$180,995	\$53,534	\$0	\$108,995	\$289,990
<b>12497</b>	Giolando, Dean	PI	Internship Agreement Between UT and Innovative Thin Films	Innovative Thin Films	\$52,900	\$10,916	\$0	\$0	\$52,900
<b>12225</b>	Kim, Dong-Shik	PI	Synthesis of Anti-Microbial Coating Materials Through Enzymatic Polymerization of Renewable Resources	Ohio Space Grant Consortium	\$10,000	\$0	\$0	\$18,400	\$28,400

<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>
<b>12368</b>	Lipscomb, Glenn	PI	Support of the 2004 "Membranes: Materials and Processes" Gordon Research Conference	National Science Foundation	\$15,000	\$0	\$0	\$7,013	\$22,013
<b>11912</b>	Lipscomb, Glenn	PI	Formation of Anisotropic Hollow Fiber Membranes via TIPS	University of Texas	\$33,112	\$9,794	\$0	\$16,478	\$49,590
<b>11976</b>	Schall, Constance DeWitt, Kenneth Pinkerton, Alan	PI Co1 Co2	Optimization of Cryogenic Cooling of Protein Crystals	NASA Marshall Space Flight Center	\$24,000	\$10,080	\$0	\$0	\$24,000
<b>12418</b>	Viola, Ronald	PI	Collaborative Research of Proton Transfer in Enzymes: A Synergetic Theoretical-Experimental Approach	National Science Foundation	\$56,847	\$16,814	\$0	\$35,956	\$92,803
<i>Summary for Department of Chemical and Environmental Engineering (19 awards)</i>									
<b>Sum</b>					\$2,240,555	\$216,264	\$151,730	\$1,749,860	\$4,142,145
<b>Percent</b>					6.94%	5.09%	6.22%	12.75%	8.55%

### Department of Civil Engineering

<b>12496</b>	Chou, Eddie	PI	A Roadway Management Information System for the City of Perrysburg	City of Perrysburg	\$15,286	\$1,390	\$0	\$11,795	\$27,081
<b>11914</b>	Chou, Eddie	PI	Structural Support of Lime Stabilized Subgrade Used with Flexible Pavements Supplement	Ohio Department of Transportation	\$18,753	\$4,029	\$0	\$2,155	\$20,908
<b>12046</b>	Chou, Eddie	PI	Effectiveness of Thin Hot Mix Overlay on Pavement Ride and Condition Performance	Ohio Department of Transportation	\$76,223	\$16,956	\$0	\$68,029	\$144,252
<b>11798</b>	Chou, Eddie Murnen, George	PI Co1	Phase III - Pavement Management Information System	City of Toledo	\$136,465	\$12,406	\$0	\$58,652	\$195,117
<b>11707</b>	Chou, Eddie	PI	Pavement Forecasting Models	Ohio Department of Transportation	\$193,638	\$41,750	\$0	\$101,470	\$295,108
<b>12194</b>	Gruden, Cyndee	PI	Rapid Characterization of PCB Contaminated Sediments Toward Effective Enhanced Remediation	Ohio State University Water Resource Center	\$25,000	\$0	\$0	\$61,655	\$86,655
<b>12484</b>	Gupta, Jiwan	PI	Graduate Student Intern	Toledo Metropolitan Area Council of Governments	\$10,199	\$927	\$0	\$8,444	\$18,643

<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>
11770	Gupta, Jiwan	PI	Update Transportation Model for Lima - Allen County	Allen County	\$4,213	\$383	\$0	\$12,757	\$16,970
12053	Gupta, Jiwan	PI	Data Management System for the TMACOG	Toledo Metropolitan Area Council of Governments	\$9,745	\$0	\$0	\$18,934	\$28,679
12043	Gupta, Jiwan	PI	Update Transportation Model for Lima - Allen County	Allen County	\$4,932	\$448	\$0	\$16,138	\$21,070
12358	Gupta, Jiwan	PI	Update Transportation Model for Lima-Allen County	Allen County	\$4,264	\$388	\$0	\$21,583	\$25,847
12357	Gupta, Jiwan	PI	Traffic Enhancement Study for Lima-Allen County	Allen County	\$9,558	\$869	\$0	\$28,600	\$38,158
11626	Kumar, Ashok	PI	University of Toledo Pollution Prevention Incentives for States Grant Proposal	U.S. Environmental Protection Agency	\$94,885	\$16,849	\$51,500	\$62,860	\$209,245
11841	Kumar, Ashok Harrell, James	PI Co1	Radon Web Site	Ohio Department of Health	\$32,000	\$0	\$0	\$58,881	\$90,881
11708	Nims, Douglas	PI	Evaluation of Stay in Place Metal Forms	Ohio Department of Transportation	\$81,401	\$14,467	\$0	\$53,577	\$134,978
12115	Nims, Douglas	PI	Maumee River Crossing Instrumentation - Delta Frame Extension	HNTB Ohio, Inc.	\$14,999	\$1,464	\$0	\$14,574	\$29,573
11973	Parvin, Azadeh	PI	International US-Turkey Cooperative Research: Seismic Retrofitting of Reinforced Concrete Structural Members by Composite Materials	National Science Foundation	\$15,000	\$567	\$0	\$22,099	\$37,099
12124	Pickett, Mark Escobar, Isabel Gruden, Cyndee Cooks, Helen	PI Co1 Co2 Co3	DLAMST- Distance Learning Applications of Math and Science for Teachers	Ohio Board of Regents	\$139,086	\$10,303	\$99,184	\$7,274	\$245,544

Summary for Department of Civil Engineering (18 awards)

<b>Sum</b>					\$885,647	\$123,196	\$150,684	\$629,477	\$1,665,808
<b>Percent</b>					2.74%	2.90%	6.18%	4.59%	3.44%

Department of Electrical Engineering and Computer Science

<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>
<b>11567</b>	Kim, Junghwan	PI	Modeling and Performance Analysis of the FH-FDMA Waveform in a Jamming Environment	Samsung Thales Company, Ltd.	\$119,999	\$34,753	\$0	\$33,072	\$153,071
<b>11930</b>	Kim, Junghwan	PI	Study on the Effects of Transponder Parameters toward Performance of the Next Generation Active Communication Satellite	Electronics and Telecommunications Research Institute	\$24,469	\$4,524	\$0	\$8,526	\$32,995
<b>12323</b>	Kim, Junghwan	PI	Assessment on the Efficient Signal Processing Architecture for the Multimedia Satellite Signal	Electronics and Telecommunications Research Institute	\$33,334	\$6,667	\$0	\$19,044	\$52,378
<b>11961</b>	Stuart, Thomas	PI	Hybrid Delivery Van	Bowling Green State University	\$123,933	\$36,656	\$0	\$90,433	\$214,366
<i>Summary for Department of Electrical Engineering and Computer Science (4 awards)</i>									
<b>Sum</b>					\$301,735	\$82,600	\$0	\$151,075	\$452,810
<b>Percent</b>					0.93%	1.94%	0.00%	1.10%	0.93%

### Department of Engineering Technology

<b>11792</b>	Kamm, James	PI	University of Toledo Photovoltaic System	Ohio Department of Development	\$50,000	\$1,499	\$0	\$61,692	\$111,692
<i>Summary for Department of Engineering Technology (1 award)</i>									
<b>Sum</b>					\$50,000	\$1,499	\$0	\$61,692	\$111,692
<b>Percent</b>					0.15%	0.04%	0.00%	0.45%	0.23%

### Department of Mechanical, Industrial, and Manufacturing Engineering

<b>12453</b>	Afjeh, Abdollah Naganathan, Nagi	PI Co1	Development of a Vehicle Engineering Program	Dana Corporation	\$246,000	\$26,357	\$0	\$79,696	\$325,696
<b>12142</b>	Fatemi, Ali	PI	Strain-Controlled Fatigue Performance for Design Optimization of Critical Bar Steel Automotive Applications	American Iron and Steel Institute	\$128,500	\$25,700	\$0	\$83,041	\$211,541
<b>12527</b>	Hefzy, M. Naganathan, Nagi	PI Co1	Engineering Senior Design Projects to Aid the Disabled	National Science Foundation	\$19,378	\$1,761	\$0	\$36,980	\$56,358

<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>
12197	Hixon, Duane	PI	Further Development of Computational Aeroacoustics Code for Jet Noise and Flow Prediction	NASA John H. Glenn Research Center at Lewis Field	\$85,000	\$25,003	\$0	\$0	\$85,000
12002	Hixon, Duane	PI	Further Development of Computational Aeroacoustics Code for Jet Noise and Flow Prediction	NASA John H. Glenn Research Center at Lewis Field	\$141,915	\$37,147	\$0	\$38,339	\$180,254
12216	Jayatissa, Ahalapitiya	PI	Start-Up Funding	Ohio Board of Regents	\$120,085	\$0	\$0	\$0	\$120,085
12440	Jayatissa, Ahalapitiya	PI	Development of a Nanotemplate Substrate For Nanofabrication	Ohio Board of Regents	\$9,850	\$0	\$0	\$0	\$9,850
12230	Jayatissa, Ahalapitiya	PI	CAREER: Micromachined Surface Conduction Tunneling Gas Sensors -Year 1	National Science Foundation	\$87,528	\$21,393	\$0	\$4,242	\$91,770
12102	Jayatissa, Ahalapitiya Nadarajah, Arunan	PI Co1	Molecular Assembling for the Development of Dye-Sensitized Nano-Photonic Devices	National Science Foundation	\$100,000	\$29,577	\$0	\$37,355	\$137,355
12482	Jayatissa, Ahalapitiya	PI	CAREER: Micromachined Surface Conduction Tunneling Gas Sensors Year 2	National Science Foundation	\$75,556	\$21,993	\$0	\$4,667	\$80,223
12005	Keith, Theo	PI	Heat Transfer and Thermal Stability Research for Advanced Hydrocarbon Fuel Technologies	NASA John H. Glenn Research Center at Lewis Field	\$40,000	\$6,000	\$0	\$4,773	\$44,773
12265	Keith, Theo	PI	Demonstration, Testing and Qualification of a High Temperature, High Speed Magnetic Thrust Bearing	NASA John H. Glenn Research Center at Lewis Field	\$5,000	\$850	\$0	\$0	\$5,000
12007	Keith, Theo	PI	Experimental Studies of Traction Drives, Magnetic Bearings and Mechanical Backup Bearings for Space Applications	NASA John H. Glenn Research Center at Lewis Field	\$104,351	\$17,875	\$0	\$5,030	\$109,381
12006	Keith, Theo	PI	CFD Simulations of Casing Treatment for Axial Flow Compressors	NASA John H. Glenn Research Center at Lewis Field	\$113,086	\$19,210	\$0	\$5,514	\$118,600
12428	Keith, Theo	PI	Validation and Enhancement of Comprehensive Combustion Modeling and Simulation	NASA John H. Glenn Research Center at Lewis Field	\$18,501	\$2,688	\$0	\$0	\$18,501
12516	Keith, Theo	PI	Aeroelastic Modeling and Analysis of NASA Fan and Compressor Design	NASA John H. Glenn Research Center at Lewis Field	\$120,000	\$20,400	\$0	\$0	\$120,000

<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>
<b>12201</b>	Keith, Theo	PI	Turbine Internal and Film Cooling Modeling for 3D Navier-Stokes Codes	NASA John H. Glenn Research Center at Lewis Field	\$40,000	\$6,680	\$0	\$0	\$40,000
<b>12460</b>	Keith, Theo	PI	Turbine Internal and Film Cooling Modeling for 3D Navier-Stokes Codes	NASA John H. Glenn Research Center at Lewis Field	\$9,704	\$1,650	\$0	\$0	\$9,704
<b>12466</b>	Keith, Theo	PI	Research Initiatives Involving Advanced Electro Mechanical Components	NASA John H. Glenn Research Center at Lewis Field	\$20,000	\$3,465	\$0	\$949	\$20,949
<b>12212</b>	Keith, Theo	PI	High Speed Operation and Testing of a Fault Tolerant Magnetic Bearing	NASA John H. Glenn Research Center at Lewis Field	\$10,000	\$1,700	\$0	\$0	\$10,000
<b>12469</b>	Keith, Theo	PI	Investigation of a Journal Bearing for Application in the Gear Box of a Geared Fan	NASA John H. Glenn Research Center at Lewis Field	\$154,963	\$12,862	\$0	\$0	\$154,963
<b>12470</b>	Keith, Theo	PI	Turbomachinery Heat Transfer and Loss Modeling for 3D Navier-Stokes Codes	NASA John H. Glenn Research Center at Lewis Field	\$54,640	\$9,289	\$0	\$0	\$54,640
<b>11710</b>	Keith, Theo	PI	Research Initiatives Involving Advanced Electro-mechanical Components	NASA John H. Glenn Research Center at Lewis Field	\$39,617	\$6,842	\$0	\$1,888	\$41,505
<b>11711</b>	Keith, Theo	PI	Technology Validation and Risk Reduction Research for Flywheel Technology	NASA John H. Glenn Research Center at Lewis Field	\$8,950	\$1,551	\$0	\$424	\$9,374
<b>12458</b>	Keith, Theo	PI	Analysis and Optimization of Mixing Enhancement Devices	NASA John H. Glenn Research Center at Lewis Field	\$24,645	\$4,190	\$0	\$0	\$24,645
<b>11712</b>	Keith, Theo	PI	Conical Magnetic Bearing Development and Magnetic Bearing Testing for Extreme Temperature Environments	NASA John H. Glenn Research Center at Lewis Field	\$5,717	\$1,013	\$0	\$263	\$5,980
<b>12485</b>	Keith, Theo	PI	Demonstration, Testing and Qualification of a High Temperature, High Speed Magnetic Thrust Bearing	NASA John H. Glenn Research Center at Lewis Field	\$50,000	\$8,478	\$0	\$2,444	\$52,444
<b>11978</b>	Keith, Theo	PI	Conical Magnetic Bearing Development and Magnetic Bearing Testing for Extreme Temperature Environments	NASA John H. Glenn Research Center at Lewis Field	\$25,720	\$4,288	\$0	\$1,285	\$27,005

<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>
11667	Keith, Theo	PI	Advanced Aeroelastic Technologies for Turbomachine Applications	NASA John H. Glenn Research Center at Lewis Field	\$15,000	\$2,550	\$0	\$2,408	\$17,408
11980	Keith, Theo	PI	Technology Validation and Risk Reduction Research for Flywheel Technology	NASA John H. Glenn Research Center at Lewis Field	\$156,598	\$32,649	\$0	\$7,279	\$163,877
12429	Keith, Theo	PI	Elevated Temperature Structural Seal Development	NASA John H. Glenn Research Center at Lewis Field	\$27,500	\$2,350	\$0	\$0	\$27,500
11942	Keith, Theo	PI	Analysis and Optimization of Mixing Enhancement Devices	NASA John H. Glenn Research Center at Lewis Field	\$35,000	\$5,950	\$0	\$5,295	\$40,295
12427	Keith, Theo	PI	Demonstration, Testing and Qualification of a High Temperature, High Speed Magnetic Thrust Bearing	NASA John H. Glenn Research Center at Lewis Field	\$29,977	\$4,356	\$0	\$0	\$29,977
11938	Keith, Theo	PI	Turbomachinery Heat Transfer and Loss Modeling for 3D Navier-Stokes Codes	NASA John H. Glenn Research Center at Lewis Field	\$110,000	\$18,370	\$0	\$7,925	\$117,925
12192	Keith, Theo	PI	Development of Particulates and Aerosols Research	NASA John H. Glenn Research Center at Lewis Field	\$96,653	\$16,593	\$0	\$4,645	\$101,298
12246	Keith, Theo	PI	Aeroelastic Modeling and Analysis of NASA Fan and Compressor Designs	NASA John H. Glenn Research Center at Lewis Field	\$60,000	\$10,200	\$0	\$0	\$60,000
12515	Keith, Theo	PI	High-Speed Operation and Testing of a Fault-Tolerant Magnetic Bearing	NASA John H. Glenn Research Center at Lewis Field	\$10,000	\$1,700	\$0	\$0	\$10,000
11935	Keith, Theo	PI	Turbine Internal and Film Cooling Modeling for 3D Navier-Stokes Codes	NASA John H. Glenn Research Center at Lewis Field	\$40,000	\$6,680	\$0	\$9,878	\$49,878
11934	Keith, Theo	PI	CFD Simulations of Casing Treatment for Axial Flow Compressors	NASA John H. Glenn Research Center at Lewis Field	\$40,495	\$6,070	\$0	\$1,827	\$42,322
12188	Keith, Theo	PI	High Speed Operation and Testing of a Fault Tolerant Magnetic Bearing	NASA John H. Glenn Research Center at Lewis Field	\$15,000	\$2,550	\$0	\$0	\$15,000

<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>
<b>12461</b>	Keith, Theo	PI	Modeling of Advanced High Temperature Composite Behavior	NASA John H. Glenn Research Center at Lewis Field	\$25,342	\$4,308	\$0	\$0	\$25,342
<b>12187</b>	Keith, Theo	PI	Elevated Temperature Structural Seal Development	NASA John H. Glenn Research Center at Lewis Field	\$30,000	\$8,487	\$0	\$5,117	\$35,117
<b>11979</b>	Keith, Theo	PI	Research in Controls for Flywheel Technology Applications	NASA John H. Glenn Research Center at Lewis Field	\$120,351	\$20,542	\$0	\$5,830	\$126,181
<b>12048</b>	Keith, Theo	PI	High Speed Operation and Testing of Fault Tolerant Magnetic Bearings	NASA John H. Glenn Research Center at Lewis Field	\$15,000	\$2,550	\$0	\$3,179	\$18,179
<b>12327</b>	Keith, Theo	PI	Aeroelastic Technologies for Turbomachinery Applications	NASA John H. Glenn Research Center at Lewis Field	\$35,000	\$5,085	\$0	\$0	\$35,000
<b>11933</b>	Keith, Theo	PI	Microstructural Analysis of Advanced Turbine Materials	NASA John H. Glenn Research Center at Lewis Field	\$20,000	\$3,346	\$0	\$8,581	\$28,581
<b>12066</b>	Keith, Theo	PI	Extreme Temperature Magnetic Bearings	NASA John H. Glenn Research Center at Lewis Field	\$82,740	\$14,275	\$0	\$3,959	\$86,699
<b>12321</b>	Keith, Theo	PI	Advanced Aeroelastic Technologies for Turbomachine Applications	NASA John H. Glenn Research Center at Lewis Field	\$35,000	\$5,950	\$0	\$0	\$35,000
<b>12316</b>	Keith, Theo	PI	Computed Tomography and Digital Radiography Based Research for Aerospace Materials	NASA John H. Glenn Research Center at Lewis Field	\$65,570	\$9,543	\$0	\$3,153	\$68,723
<b>12059</b>	Keith, Theo	PI	Investigation of a Journal Bearing for Application in the Gear Box of a Geared Fan	NASA John H. Glenn Research Center at Lewis Field	\$35,000	\$6,633	\$0	\$24,567	\$59,567
<b>12022</b>	Keith, Theo	PI	Heat Transfer and Thermal Stability Research for Advanced Hydrocarbon Fuel Technologies	NASA John H. Glenn Research Center at Lewis Field	\$30,000	\$5,010	\$0	\$0	\$30,000
<b>12049</b>	Keith, Theo	PI	Damping Concepts for Rotating Blades and Rotor Dynamic Analysis	NASA John H. Glenn Research Center at Lewis Field	\$69,656	\$12,093	\$0	\$3,295	\$72,951

<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>
<b>12328</b>	Keith, Theo	PI	Elevated Temperature Structural Seal Development	NASA John H. Glenn Research Center at Lewis Field	\$14,000	\$2,034	\$0	\$0	\$14,000
<b>11524</b>	Keith, Theo	PI	Next Generation of Hall Thrusters for Space Propulsion	NASA John H. Glenn Research Center at Lewis Field	\$289,676	\$0	\$0	\$0	\$289,676
<b>12544</b>	Keith, Theo	PI	Extreme Temperature Magnetic Bearings	NASA John H. Glenn Research Center at Lewis Field	\$20,000	\$3,400	\$0	\$0	\$20,000
<b>11952</b>	Keith, Theo	PI	Modeling of Advanced High Temperature Composite Behavior	NASA John H. Glenn Research Center at Lewis Field	\$28,000	\$4,760	\$0	\$7,330	\$35,330
<b>12165</b>	Keith, Theo	PI	Aeroelastic Technologies for Turbomachinery Applications	NASA John H. Glenn Research Center at Lewis Field	\$40,000	\$7,650	\$0	\$3,573	\$43,573
<b>12416</b>	Keith, Theo	PI	Modeling of Advanced High Temperature Composite Behavior	NASA John H. Glenn Research Center at Lewis Field	\$5,000	\$500	\$0	\$150	\$5,150
<b>12310</b>	Keith, Theo	PI	Microstructural Analysis of Advanced Turbine Materials	NASA John H. Glenn Research Center at Lewis Field	\$50,000	\$8,500	\$0	\$0	\$50,000
<b>12050</b>	Keith, Theo	PI	Demonstration, Testing, and Qualification of a High Temperature, High Speed Magnetic Thrust Bearing	NASA John H. Glenn Research Center at Lewis Field	\$15,000	\$2,550	\$0	\$3,376	\$18,376
<b>12150</b>	Keith, Theo	PI	Research Initiatives Involving Advanced Electro-Mechanical Components	NASA John H. Glenn Research Center at Lewis Field	\$49,971	\$8,550	\$0	\$2,413	\$52,384
<b>12028</b>	Keith, Theo	PI	Advanced Concepts Research for Flywheel Technology Applications	NASA John H. Glenn Research Center at Lewis Field	\$100,000	\$17,000	\$0	\$5,793	\$105,793
<b>12481</b>	Keith, Theo	PI	Advanced Concepts Research for Flywheel Technology Applications	NASA John H. Glenn Research Center at Lewis Field	\$89,166	\$15,159	\$0	\$1,278	\$90,444
<b>12160</b>	Keith, Theo	PI	Validation and Enhancement of Comprehensive Combustion Modeling and Simulation	NASA John H. Glenn Research Center at Lewis Field	\$41,000	\$6,970	\$0	\$6,085	\$47,085

<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>
<b>12326</b>	Keith, Theo	PI	Modeling of Advanced High Temperature Composite Behavior	NASA John H. Glenn Research Center at Lewis Field	\$72,000	\$10,461	\$0	\$0	\$72,000
<b>11387</b>	Keith, Theo	PI	Research Initiatives Involving Advanced Electro-mechanical Components	NASA John H. Glenn Research Center at Lewis Field	\$81,001	\$13,978	\$0	\$3,865	\$84,866
<b>12360</b>	Keith, Theo	PI	Turbine Internal and Film Cooling Modeling for 3D Navier-Stokes Codes	NASA John H. Glenn Research Center at Lewis Field	\$50,000	\$7,265	\$0	\$973	\$50,973
<b>12391</b>	Keith, Theo	PI	Turbine Internal and Film Cooling Modeling for 3D Navier-Stokes Codes	NASA John H. Glenn Research Center at Lewis Field	\$39,000	\$5,667	\$0	\$0	\$39,000
<b>12388</b>	Keith, Theo	PI	Turbine Internal and Film Cooling Modeling for 3D Navier-Stokes Codes	NASA John H. Glenn Research Center at Lewis Field	\$25,000	\$3,632	\$0	\$0	\$25,000
<b>12387</b>	Keith, Theo	PI	Demonstration, Testing and Qualification of a High Temperature, High Speed Magnetic Thrust Bearing	NASA John H. Glenn Research Center at Lewis Field	\$20,000	\$2,906	\$0	\$0	\$20,000
<b>12386</b>	Keith, Theo	PI	Microstructural Analysis of Advanced Turbine Materials	NASA John H. Glenn Research Center at Lewis Field	\$45,000	\$6,538	\$0	\$0	\$45,000
<b>12385</b>	Keith, Theo	PI	Modeling of Advanced High Temperature Composite Behavior	NASA John H. Glenn Research Center at Lewis Field	\$27,000	\$3,923	\$0	\$0	\$27,000
<b>12362</b>	Keith, Theo	PI	Analysis and Optimization of Mixing Enhancement Devices	NASA John H. Glenn Research Center at Lewis Field	\$50,000	\$7,265	\$0	\$0	\$50,000
<b>12361</b>	Keith, Theo	PI	Validation and Enhancement of Comprehensive Combustion Modeling and Simulation	NASA John H. Glenn Research Center at Lewis Field	\$65,000	\$9,444	\$0	\$973	\$65,973
<b>11966</b>	Keith, Theo	PI	Analysis of the Two-Phase, Three Dimensional, Flowfield of Spray Finishing Stomizers	ITW Automotive Refinishing	\$30,549	\$6,515	\$0	\$25,209	\$55,758
<b>11505</b>	Marinescu, Ioan	PI	Collaborative Research: Finite Element Modeling of Roller Burnishing and Selection of Process Parameters	Ohio State University	\$119,394	\$35,314	\$0	\$80,374	\$199,768

<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>
<b>12057</b>	Ng, Terry	PI	Thrust Vectoring Nozzle Study	Orbital Research, Inc.	\$9,240	\$2,733	\$0	\$12,671	\$21,911
<b>12524</b>	Ng, Terry	PI	Adaptive Flow Control	Orbital Research, Inc.	\$30,438	\$9,003	\$0	\$24,383	\$54,821
<b>12247</b>	Schall, Constance DeWitt, Kenneth Pinkerton, Alan	PI Co1 Co2	Optimization of Cryogenic Cooling of Protein Crystals	NASA Marshall Space Flight Center	\$96,750	\$40,635	\$0	\$0	\$96,750
<b>12291</b>	Zhang, Hongyan	PI	Characterizing and Optimizing Stud Welding Collets	Emhart Teknologies, Inc.	\$5,000	\$1,479	\$0	\$0	\$5,000
<b>11520</b>	Zhang, Hongyan	PI	Mechanical Property Characterization of Human Tissues	Beaumont Hospital	\$9,679	\$2,863	\$0	\$2,464	\$12,143
<i>Summary for Department of Mechanical, Industrial, and Manufacturing Engineering (81 awards)</i>									
<b>Sum</b>					\$4,575,452	\$772,496	\$0	\$584,738	\$5,160,190
<b>Percent</b>					14.16%	18.18%	0.00%	4.26%	10.65%

### Polymer Institute

<b>11903</b>	Jabarin, Saleh	PI	Industrial Consortium for Poly(ethylene terephthalate), PET	Coca-Cola	\$15,000	\$0	\$0	\$0	\$15,000
<b>11868</b>	Jabarin, Saleh	PI	Research Performed for Uniloy Milacron, Inc.	Uniloy Milacron, Inc.	\$10,000	\$0	\$0	\$0	\$10,000
<b>11896</b>	Jabarin, Saleh	PI	Industrial Consortium for Poly(ethylene terephthalate), PET	Graham Packaging	\$15,000	\$0	\$0	\$0	\$15,000
<b>11860</b>	Jabarin, Saleh	PI	Research Performed for Non Contact International, Inc.	Non Contact International, Inc.	\$1,200	\$0	\$0	\$0	\$1,200
<b>11891</b>	Jabarin, Saleh	PI	Research Performed for Cipco, Inc	Cipco, Inc.	\$500	\$0	\$0	\$0	\$500
<b>11883</b>	Jabarin, Saleh	PI	Research Performed for Sable Plastech, Inc.	Sabel Plastechs	\$1,500	\$0	\$0	\$0	\$1,500
<b>11876</b>	Jabarin, Saleh	PI	Industrial Consortium for Poly(ethylene terephthalate), PET	Sabic R&D	\$15,000	\$0	\$0	\$0	\$15,000
<b>11886</b>	Jabarin, Saleh	PI	Industrial Consortium for Poly(ethylene terephthalate), PET	Wellman, Inc.	\$20,000	\$0	\$0	\$0	\$20,000

<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>
11870	Jabarin, Saleh	PI	Research Performed for Energy Conversion Devices, Inc.	Energy Conversion Devices, Inc.	\$440	\$0	\$0	\$0	\$440
11884	Jabarin, Saleh	PI	Research Performed for Coca-Cola	Coca-Cola	\$35,000	\$0	\$0	\$0	\$35,000
11859	Jabarin, Saleh	PI	Research Performed for Noveon, Inc.	Noveon, Inc.	\$900	\$0	\$0	\$0	\$900
11872	Jabarin, Saleh	PI	Research Performed for Airopak Corporation	Airopak Corporation	\$1,500	\$0	\$0	\$0	\$1,500
11898	Jabarin, Saleh	PI	Industrial Consortium for Poly(ethylene terephthalate), PET	Shell Chemical Company	\$15,000	\$0	\$0	\$0	\$15,000
12038	Jabarin, Saleh	PI	Research Performed for Perstorp Polyols, Inc.	Perstorp Polyols, Inc.	\$500	\$0	\$0	\$0	\$500
10385	Jabarin, Saleh	PI	Industrial Consortium for Poly(ethylene terephthalate), PET	SK Chemicals	\$15,000	\$0	\$0	\$0	\$15,000
11902	Jabarin, Saleh	PI	Industrial Consortium for Poly(ethylene terephthalate), PET	Crown Cork & Seal	\$15,000	\$0	\$0	\$0	\$15,000
12014	Jabarin, Saleh	PI	Research Performed for Envision Plastics	Envision Plastics Parmass Holdings, Inc.	\$400	\$0	\$0	\$0	\$400
12227	Jabarin, Saleh	PI	Research Performed for The Minute Maid Company	The Minute Maid Company	\$4,500	\$0	\$0	\$0	\$4,500
12051	Jabarin, Saleh	PI	Industrial Consortium for Poly(ethylene terephthalate), PET	Associated Packaging Enterprises, Inc	\$15,000	\$0	\$0	\$0	\$15,000
12226	Jabarin, Saleh	PI	Research Performed for Wellman, Inc.	Wellman, Inc.	\$640	\$0	\$0	\$0	\$640
11910	Jabarin, Saleh	PI	Research Performed for KoSa	KoSa	\$12,450	\$0	\$0	\$0	\$12,450
12186	Jabarin, Saleh	PI	Research Performed for TechWorks	TechWorks	\$800	\$0	\$0	\$0	\$800
12121	Jabarin, Saleh	PI	Research Performed for SABIC R&D	Sabic R&D	\$25,800	\$0	\$0	\$0	\$25,800
11877	Jabarin, Saleh	PI	Industrial Consortium for Poly(ethylene terephthalate), PET	KoSa	\$15,000	\$0	\$0	\$0	\$15,000
11897	Jabarin, Saleh	PI	Industrial Consortium for Poly(ethylene terephthalate), PET	Aromatics Derivatives - UOP	\$20,000	\$0	\$0	\$0	\$20,000
12509	Jabarin, Saleh	PI	Research Performed for Seaquist Perfect Dispensing	Seaquist Perfect Dispensing	\$7,070	\$0	\$0	\$0	\$7,070

<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>
11875	Jabarin, Saleh	PI	Industrial Consortium for Poly(ethylene terephthalates), PET	Dow Europe S.A.	\$15,000	\$0	\$0	\$0	\$15,000
11888	Jabarin, Saleh	PI	Research Performed for the Plastics Group (Fremont Plastics)	The Plastics Group, Inc. (Fremont Plastics)	\$350	\$0	\$0	\$0	\$350
10388	Jabarin, Saleh	PI	Industrial Consortium for Poly(ethylene terephthalate), PET	Eastman Chemical Company	\$15,000	\$0	\$0	\$0	\$15,000
11901	Jabarin, Saleh	PI	Industrial Consortium for Poly(ethylene terephthalate), PET	Amoco Corporation	\$15,000	\$0	\$0	\$0	\$15,000
11871	Jabarin, Saleh	PI	Industrial Consortium for Poly(ethylene terephthalate), PET	Pepsi-Cola	\$15,000	\$0	\$0	\$0	\$15,000
11887	Jabarin, Saleh	PI	Research Performed for Pepsi-Cola Company	Pepsi-Cola	\$37,874	\$0	\$0	\$0	\$37,874
11869	Jabarin, Saleh	PI	Research Performed for Associated Packaging Enterprises	Associated Packaging Enterprises, Inc	\$17,600	\$0	\$0	\$0	\$17,600
11864	Jabarin, Saleh	PI	Research for Amcor PET Packaging	Amcor PET Packaging	\$3,000	\$0	\$0	\$0	\$3,000
11894	Jabarin, Saleh	PI	Industrial Consortium for Poly(ethylene terephthalate), PET	Amcor PET Packaging	\$15,000	\$0	\$0	\$0	\$15,000
12318	Jabarin, Saleh	PI	Industrial Consortium for Poly(ethylene terephthalate), PET	Buhler Company	\$19,971	\$0	\$0	\$0	\$19,971
11861	Jabarin, Saleh	PI	Research Performed for Owens Illinois, Inc.	Owens Illinois, Inc.	\$38,675	\$0	\$0	\$0	\$38,675
12279	Jabarin, Saleh	PI	Research Performed for AGP Plastics, Inc.	AGP Plastics, Inc.	\$500	\$0	\$0	\$0	\$500

Summary for Polymer Institute (38 awards)

<b>Sum</b>					\$456,171	\$0	\$0	\$0	\$456,171
<b>Percent</b>					1.41%	0.00%	0.00%	0.00%	0.94%

Number of Awards for The College of Engineering = 177

<b>Sum</b>					\$9,334,013	\$1,371,964	\$302,414	\$3,801,555	\$13,437,982
<b>Percent</b>					28.89%	32.29%	12.41%	27.70%	27.73%

## *The College of Health and Human Services*

<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>Administration, College of Health and Human Services</i>									
12514	Benjamin, Barbaranne Benjamin, James	PI Co1	Technology Enhanced Multi-Institutional MPH Program	Medical College of Ohio	\$23,351	\$0	\$0	\$11,509	\$34,860
12409	Benjamin, Barbaranne	PI	Parent Alliance Strategic Alliance	Parents Helping Parents	\$4,947	\$0	\$0	\$6,001	\$10,948
<i>Summary for Administration, College of Health and Human Services (2 awards)</i>									
<b>Sum</b>					\$28,298	\$0	\$0	\$17,510	\$45,808
<b>Percent</b>					0.09%	0.00%	0.00%	0.13%	0.09%
<i>Counseling and Mental Health Services</i>									
12244	Dupuy, Paula	PI	Pulmonary Advice in Physician's Office	Respiratory Specialists	\$9,000	\$0	\$0	\$12,780	\$21,780
12443	Piazza, Nick Laux, John Salyers, Kathleen	PI Co1 Co2	Lucas County Family Drug Treatment Court	Lucas County Juvenile Court	\$15,000	\$1,364	\$0	\$37,965	\$52,965
<i>Summary for Counseling and Mental Health Services (2 awards)</i>									
<b>Sum</b>					\$24,000	\$1,364	\$0	\$50,745	\$74,745
<b>Percent</b>					0.07%	0.03%	0.00%	0.37%	0.15%
<i>Criminal Justice</i>									
12073	Boss, Marion	PI	Internship - Decreasing Juvenile Delinquency	Toledo Public Schools	\$9,949	\$0	\$0	\$17,375	\$27,324
12055	Boss, Marion	PI	Graduate Student Internship	Richard L. Albaugh Memorial Foundation	\$9,949	\$0	\$0	\$17,375	\$27,324
12072	Boss, Marion	PI	Graduate Student Internship	Hanbleceya House, Inc.	\$9,949	\$0	\$0	\$17,375	\$27,324
12132	Collins, D. Michael Paquette, Paul	PI Co1	Ohio Police Corps - Active Payment Fund	U.S. Department of Justice	\$166,000	\$0	\$0	\$0	\$166,000
12131	Collins, D. Michael Paquette, Paul	PI Co1	Ohio Police Corps Formula Fund	U.S. Department of Justice	\$229,200	\$0	\$0	\$0	\$229,200

<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>
11796	Collins, D. Michael	PI	Ohio Police Corps Program Fund	U.S. Department of Justice	\$119,698	\$0	\$0	\$46,913	\$166,611
11989	Ventura, Lois	PI	Drug and Alcohol Treatment Outcomes and Correlates - Yr 2	Alcohol and Drug Addiction Services of Lucas County	\$12,880	\$0	\$0	\$0	\$12,880
<i>Summary for Criminal Justice (7 awards)</i>									
<b>Sum</b>					\$557,625	\$0	\$0	\$99,038	\$656,663
<b>Percent</b>					1.73%	0.00%	0.00%	0.72%	1.35%

### Department of Kinesiology

11928	Armstrong, Charles	PI	Health South Graduate Assistants	Health South Sports Medicine & Rehabilitation	\$189,403	\$0	\$0	\$161,778	\$351,181
11690	Pizza, Francis	PI	Injured Muscle: Effect on Neutrophil Function - Year 3	National Institutes of Health	\$69,950	\$19,950	\$0	\$16,536	\$86,486
12553	Pizza, Francis	PI	TNF-Alpha Induced Cachexia: Effect on Skeletal Muscle Inflammation	Ohio American Heart Association	\$18,000	\$0	\$0	\$14,787	\$32,787
11495	Pizza, Francis	PI	TNF-Alpha Induced Cachexia: Effect on Muscle Inflammation	American College of Sports Medicine Foundation	\$5,000	\$0	\$0	\$2,219	\$7,219
<i>Summary for Department of Kinesiology (4 awards)</i>									
<b>Sum</b>					\$282,353	\$19,950	\$0	\$195,320	\$477,673
<b>Percent</b>					0.87%	0.47%	0.00%	1.42%	0.99%

### Department of Social Work

12530	Cluse-Tolar, Terry	PI	Initial Year	Ohio Department of Job & Family Services	\$65,186	\$0	\$0	\$10,186	\$75,372
11744	Williamson, Celia	PI	Typology of Street Prostitution: Risk & Well-Being (Year 2)	National Institutes of Health	\$71,000	\$21,000	\$0	\$38,698	\$109,698
<i>Summary for Department of Social Work (2 awards)</i>									
<b>Sum</b>					\$136,186	\$21,000	\$0	\$48,884	\$185,070
<b>Percent</b>					0.42%	0.49%	0.00%	0.36%	0.38%

<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>
<b>12376</b>	Roberts, Stephen	PI	Grant Externship - Tobacco Free Ohio	American Cancer Society	\$5,453	\$496	\$0	\$10,904	\$16,357
<b>12061</b>	Spacek, Suzanne	PI	Pulse Oximetry Technology Grant	Nellcor	\$4,250	\$0	\$0	\$1,785	\$6,035
<i>Summary for Health Professions (2 awards)</i>									
<b>Sum</b>					\$9,703	\$496	\$0	\$12,689	\$22,392
<b>Percent</b>					0.03%	0.01%	0.00%	0.09%	0.05%

*Public Health and Rehabilitative Services*

<b>12491</b>	Ayars, Candace	PI	Internship Agreement Between the University of Toledo and The Board of Lucas County Commissioners	Lucas County Commissioners	\$36,990	\$3,363	\$0	\$60,953	\$97,943
<b>12040</b>	Boardley, Debra	PI	Exercise Mode and Health Status Indices in the Elderly	University of Louisville	\$40,613	\$12,012	\$0	\$5,477	\$46,090
<b>11810</b>	Boardley, Debra	PI	Exercise Mode and Health Status Indices in the Elderly	University of Louisville	\$24,990	\$7,391	\$0	\$0	\$24,990
<b>12406</b>	Boardley, Debra	PI	Exercise Mode and Health Status Indices in the Elderly	University of Louisville	\$3,881	\$1,148	\$0	\$5,477	\$9,358
<b>11284</b>	Boardley, Debra	PI	Effect of Prehabilitation on Rehabilitation of TKA	University of Louisville	\$7,980	\$2,360	\$0	\$0	\$7,980
<b>11941</b>	Groves, Bruce	PI	Graduate Student Externship-Erie Shores Council of Boy Scouts	Erie Shores Council Boy Scouts of America	\$9,949	\$0	\$0	\$18,447	\$28,396
<b>12274</b>	Jordan, Timothy Price, James	PI Co1	Clean Indoor Air Ordinance Grant Project	Hospital Council of Northwest Ohio	\$10,904	\$991	\$0	\$16,006	\$26,910
<b>11949</b>	Jordan, Timothy	PI	Interagency Sponsored Doctoral Assistantship for Melissa Love	Hospital Council of Northwest Ohio	\$6,485	\$0	\$0	\$10,802	\$17,287
<b>12503</b>	Jordan, Timothy	PI	Sandusky County Incentive Grant	Hospital Council of Northwest Ohio	\$10,893	\$990	\$0	\$15,637	\$26,530
<b>12071</b>	Kucharewski, Ruthie	PI	City Parks Trust Fund Support for NYSP 2003	City of Toledo	\$2,500	\$0	\$0	\$727	\$3,227

<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>
12045	Kucharewski, Ruthie	PI	NYSP Supplemental	National Youth Sports Program	\$3,555	\$0	\$0	\$1,493	\$5,048
12044	Kucharewski, Ruthie	PI	NYSP Girls Sports Clinic	National Youth Sports Program	\$4,640	\$0	\$0	\$1,949	\$6,589
11808	Kucharewski, Ruthie	PI	National Youth Sports Program	Lucas County Board of Commissioners	\$4,000	\$364	\$0	\$1,164	\$5,164
12367	Kucharewski, Ruthie	PI	National Youth Sports Program	National Youth Sports Program	\$86,500	\$0	\$95,589	\$374,375	\$556,464
11779	Longsdorf, Eric Kucharewski, Ruthie	PI Co1	HOFNOD (Hooked on Fishing Not on Drugs)	Ohio Department of Natural Resources	\$2,700	\$0	\$0	\$3,801	\$6,501
11963	Olsson, Roy	PI	Graduate Student Externship	Ability Center	\$19,898	\$0	\$0	\$36,064	\$55,962
12189	Price, James Jordan, Timothy	PI Co1	Healthy Communities Foundation: Tobacco Evaluation Project	NW Ohio Tobacco Control Strategic Alliance	\$66,500	\$4,683	\$0	\$30,512	\$97,012
11767	Telljohann, Susan	PI	Graduate Student Externship - Connecting Point	The Connecting Point	\$9,697	\$0	\$0	\$17,816	\$27,513
11797	Telljohann, Susan	PI	Graduate Student Internship	Perrysburg Area Substance Abuse Prevention Partners	\$9,697	\$0	\$0	\$17,816	\$27,513

*Summary for Public Health and Rehabilitative Services (19 awards)*

<b>Sum</b>					\$362,372	\$33,302	\$95,589	\$618,516	\$1,076,477
<b>Percent</b>					1.12%	0.78%	3.92%	4.51%	2.22%

*Number of Awards for The College of Health and Human Services = 38*

<b>Sum</b>					\$1,400,537	\$76,112	\$95,589	\$1,042,702	\$2,538,828
<b>Percent</b>					4.34%	1.79%	3.92%	7.60%	5.24%

## *The College of Pharmacy*

### *Department of Medicinal and Biological Chemistry*

<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>
<b>11932</b>	McInerney, Marcia	PI	Insulin Receptor Positive T Cell Transgenic Mice	Juvenile Diabetes Research Foundation	\$54,949	\$4,995	\$0	\$33,078	\$88,027
<b>11922</b>	McInerney, Marcia	PI	Analysis of Innate Immune Responses to Oral Pathogens	National Institute of Dental and Craniofacial Research	\$142,000	\$42,000	\$0	\$16,326	\$158,326
<i>Summary for Department of Medicinal and Biological Chemistry (2 awards)</i>									
<b>Sum</b>					\$196,949	\$46,995	\$0	\$49,404	\$246,353
<b>Percent</b>					0.61%	1.11%	0.00%	0.36%	0.51%

### Department of Pharmacology

<b>12120</b>	Messer, William	PI	Muscarinic Agonists for Neurological Disorders	National Institutes of Health	\$229,863	\$67,988	\$0	\$64,519	\$294,382
<b>12054</b>	Messer, William Nagy, Peter	PI Co1	Development of a Molecular Library: Identification of Compounds for the Brain Institutes Bioactive Compound Collection	Case Western Reserve University	\$51,799	\$15,321	\$0	\$5,477	\$57,276
<i>Summary for Department of Pharmacology (2 awards)</i>									
<b>Sum</b>					\$281,662	\$83,309	\$0	\$69,996	\$351,658
<b>Percent</b>					0.87%	1.96%	0.00%	0.51%	0.73%

### Department of Pharmacy Practice

<b>11771</b>	Martin, Steven	PI	Infectious Disease Minisabbatical	Society of Infectious Diseases Pharmacists	\$3,500	\$0	\$0	\$0	\$3,500
<b>12177</b>	Mauro, Vincent	PI	Argatroban Compatibility Investigation	GlaxoSmithKline	\$2,580	\$0	\$0	\$0	\$2,580
<i>Summary for Department of Pharmacy Practice (2 awards)</i>									
<b>Sum</b>					\$6,080	\$0	\$0	\$0	\$6,080
<b>Percent</b>					0.02%	0.00%	0.00%	0.00%	0.01%
<i>Number of Awards for The College of Pharmacy = 6</i>									
<b>Sum</b>					<b>\$484,691</b>	<b>\$130,304</b>	<b>\$0</b>	<b>\$119,400</b>	<b>\$604,091</b>
<b>Percent</b>					<b>1.50%</b>	<b>3.07%</b>	<b>0.00%</b>	<b>0.87%</b>	<b>1.25%</b>

<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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**University College**

Administration, University College

<b>11776</b>	Dobson, Kenneth	PI	State of Ohio Funding for Capacity Building for DBE Program	Bureau of Workforce Services, State of Ohio	\$1,340,000	\$114,545	\$0	\$0	\$1,340,000
<b>11970</b>	Momenee, Luanne Lettman, Dennis	PI Co1	Carl D. Perkins Grant	Ohio Board of Regents/Ohio Department of Education	\$72,793	\$0	\$0	\$72,359	\$145,152
<b>12159</b>	Pietras, Nancy	PI	Tech Prep Expanded Enrollment Grant - Planning	Ohio Department of Education	\$20,000	\$952	\$0	\$0	\$20,000
<b>12113</b>	Pietras, Nancy	PI	FY'04 tech Prep Expanded Enrollment Grant - Business/Marketing Technology	Ohio Department of Education	\$120,200	\$5,724	\$0	\$0	\$120,200
<b>12401</b>	Pietras, Nancy	PI	Tech Support for Quality Teacher Grant	Owens Community College	\$15,000	\$714	\$0	\$6,000	\$21,000
<b>12377</b>	Pietras, Nancy	PI	NW Ohio Tech Prep Consortium (July03-March04)	Various	\$1,172	\$0	\$0	\$0	\$1,172
<b>12531</b>	Pietras, Nancy	PI	Gaming Design Program Development	Ohio Board of Regents	\$5,500	\$0	\$0	\$0	\$5,500
<b>12402</b>	Pietras, Nancy	PI	Tech Prep Graduate Assistant	Lucas County Educational Service Center	\$20,000	\$952	\$0	\$36,619	\$56,619
<b>12454</b>	Pietras, Nancy	PI	HSTW Regional Office	Lucas County Educational Service Center	\$6,500	\$310	\$0	\$2,290	\$8,790
<b>11857</b>	Waldock, Mary Jo Pietras, Nancy	PI Co1	High Schools That Work Regional Office	Lucas County Educational Service Center	\$2,820	\$134	\$0	\$994	\$3,814
<b>11812</b>	Waldock, Mary Jo Pietras, Nancy	PI Co1	Tech Prep - FY'04 State Allocations	Ohio Department of Education	\$128,975	\$6,142	\$0	\$0	\$128,975
<b>11813</b>	Waldock, Mary Jo Pietras, Nancy	PI Co1	Tech Prep - FY'04 Federal Allocations	Ohio Department of Education	\$246,232	\$11,725	\$0	\$86,768	\$333,000
<b>11856</b>	Waldock, Mary Jo Pietras, Nancy	PI Co1	High Schools That Work Regional Office	Lucas County Educational Service Center	\$90,000	\$4,285	\$0	\$31,714	\$121,714

<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 Administration, University College (13 awards)</i>									
<b>Sum</b>					\$2,069,192	\$145,483	\$0	\$236,744	\$2,305,936
<b>Percent</b>					6.41%	3.42%	0.00%	1.73%	4.76%

*Number of Awards for University College = 13*

<b>Sum</b>					<b>\$2,069,192</b>	<b>\$145,483</b>	<b>\$0</b>	<b>\$236,744</b>	<b>\$2,305,936</b>
<b>Percent</b>					<b>6.41%</b>	<b>3.42%</b>	<b>0.00%</b>	<b>1.73%</b>	<b>4.76%</b>

## *Administrative Affairs*

### *University Police*

<b>12155</b>	Kuk, Yarko	PI	University of Toledo Police Less-Lethal	Ohio Criminal Justice System	\$14,517	\$0	\$0	\$1,613	\$16,130
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*Summary for University Police (1 award)*

<b>Sum</b>					\$14,517	\$0	\$0	\$1,613	\$16,130
<b>Percent</b>					0.04%	0.00%	0.00%	0.01%	0.03%

*Number of Awards for Administrative Affairs = 1*

<b>Sum</b>					<b>\$14,517</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,613</b>	<b>\$16,130</b>
<b>Percent</b>					<b>0.04%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>0.01%</b>	<b>0.03%</b>

## *University Administration*

### *Administration, Educational and Information Technology*

<b>12211</b>	Marsh, William	PI	Mainframe Computing Alliance	Ohio Board of Regents	\$61,277	\$0	\$0	\$26,710	\$87,987
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*Summary for Administration, Educational and Information Technology (1 award)*

<b>Sum</b>					\$61,277	\$0	\$0	\$26,710	\$87,987
<b>Percent</b>					0.19%	0.00%	0.00%	0.19%	0.18%

<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>Administration, University Office of Research</i>									
<b>12195</b>	Calzonetti, Frank	PI	Support of Agricultural Research of Mutual Interest	U.S. Department of Agriculture	\$15,400	\$1,400	\$0	\$0	\$15,400
<i>Summary for Administration, University Office of Research (1 award)</i>									
<b>Sum</b>					\$15,400	\$1,400	\$0	\$0	\$15,400
<b>Percent</b>					0.05%	0.03%	0.00%	0.00%	0.03%
<i>Urban Affairs Center</i>									
<b>12259</b>	McGuire, Patrick	PI	Urban Affairs Center 2004 Program Plan	Ohio Board of Regents	\$195,374	\$0	\$337,986	\$443,999	\$977,359
<b>12278</b>	McGuire, Patrick	PI	Community Engagement and Small Schools	Bowling Green State University	\$8,538	\$0	\$0	\$5,436	\$13,974
<b>11715</b>	McGuire, Patrick Van Hoy, Jerry Hamer, Lynne Chesney, Barbara	PI Co1 Co2 Co3	The Midwest Education Reform Consortium: A Collaborative Gear-Up Initiative	Bowling Green State University	\$113,006	\$8,371	\$0	\$74,864	\$187,870
<b>11171</b>	McGuire, Patrick Johnston, Donna	PI Co1	Ohio Community Computer Center Network	Ohio Community Computer Center Network	\$46,035	\$4,185	\$25,000	\$43,076	\$114,111
<b>12214</b>	McGuire, Patrick Johnston, Donna	PI Co1	Ohio Community Computer Center Network	Ohio Community Computer Center Network	\$1,795	\$163	\$0	\$522	\$2,317
<b>12129</b>	McGuire, Patrick Fox, Christine Hamer, Lynne	PI Co1 Co2	Midwest Educational Research Consortium: East Toledo Gear-Up Project	Bowling Green State University	\$120,266	\$8,908	\$0	\$89,703	\$209,969
<b>12154</b>	McGuire, Patrick Wuest, Susan	PI Co1	Economic Development Research Collaborative	Ohio Board of Regents	\$165,893	\$0	\$0	\$0	\$165,893
<b>11379</b>	McGuire, Patrick Wilson, David	PI Co1	The Status of Ohio's Urban Public Schools	University of Cincinnati	\$15,000	\$0	\$0	\$8,923	\$23,923
<b>11629</b>	McGuire, Patrick	PI	Urban Affairs Center 2003 Program Plan	Ohio Urban University Program	\$221,374	\$0	\$195,051	\$259,770	\$676,195

<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>
<b>10609</b>	McGuire, Patrick Edwards, Mary	PI Co1	Contemporary Toledanos: A Study of Educational Opportunity, Impediments, and Attainment for Latino Youth in Toledo	City of Toledo	\$4,000	\$364	\$0	\$30,709	\$34,709

Summary for Urban Affairs Center (10 awards)

<b>Sum</b>					\$891,281	\$21,991	\$558,037	\$957,002	\$2,406,320
<b>Percent</b>					2.76%	0.52%	22.89%	6.97%	4.96%

Number of Awards for University Administration = 12

<b>Sum</b>					<b>\$967,958</b>	\$23,391	<b>\$558,037</b>	<b>\$983,712</b>	<b>\$2,509,707</b>
<b>Percent</b>					<b>3.00%</b>	0.55%	<b>22.89%</b>	<b>7.17%</b>	<b>5.18%</b>

## Enrollment Services

### Administration, Enrollment and Placement Services

<b>12126</b>	Cooks, Helen	PI	Student Support Services Program	U.S. Department of Education	\$199,614	\$14,786	\$0	\$128,916	\$328,530
<b>12025</b>	Cooks, Helen	PI	GEARUP	U.S. Department of Education	\$652,607	\$48,342	\$0	\$791,331	\$1,443,938
<b>11415</b>	Young, David	PI	Upward Bound Program	U.S. Department of Education	\$374,967	\$26,664	\$0	\$0	\$374,967

Summary for Administration, Enrollment and Placement Services (3 awards)

<b>Sum</b>					\$1,227,188	\$89,792	\$0	\$920,247	\$2,147,435
<b>Percent</b>					3.80%	2.11%	0.00%	6.71%	4.43%

Number of Awards for Enrollment Services = 3

<b>Sum</b>					<b>\$1,227,188</b>	\$89,792	<b>\$0</b>	<b>\$920,247</b>	<b>\$2,147,435</b>
<b>Percent</b>					<b>3.80%</b>	2.11%	<b>0.00%</b>	<b>6.71%</b>	<b>4.43%</b>

**Grand Total** Total Number of Awards = 418

\$32,305,419	\$4,249,210	\$2,437,828	\$13,722,792	<b>\$48,466,039</b>
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