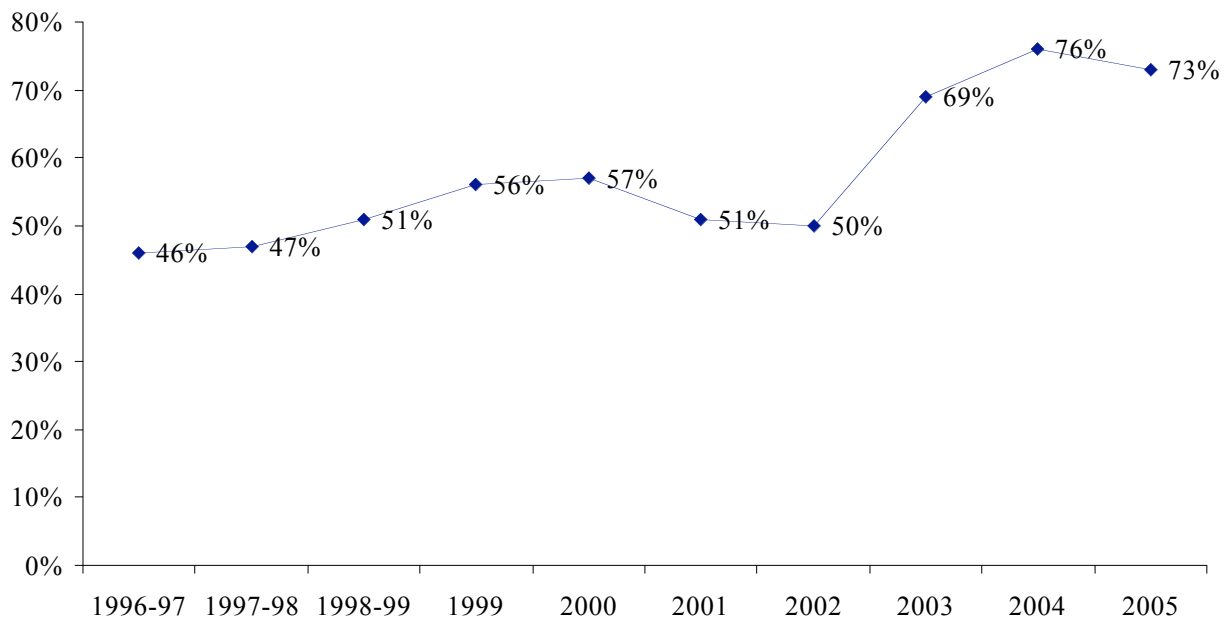


College of
Engineering
&
Technology

Summary of Sponsored Research (Grants & Contracts)

Department	# of Faculty	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Chemical Engineering	13	14	24	26	\$1,941,682
Civil & Environmental Engineering	17	18	37	26	\$1,676,116
Electrical & Computer Engineering	23	20	47	35	\$3,619,536
Mechanical Engineering	23	18	42	43	\$3,303,070
School of Technology	29	7	4	3	\$110,971
TOTALS	105	77	152	120	\$10,651,375

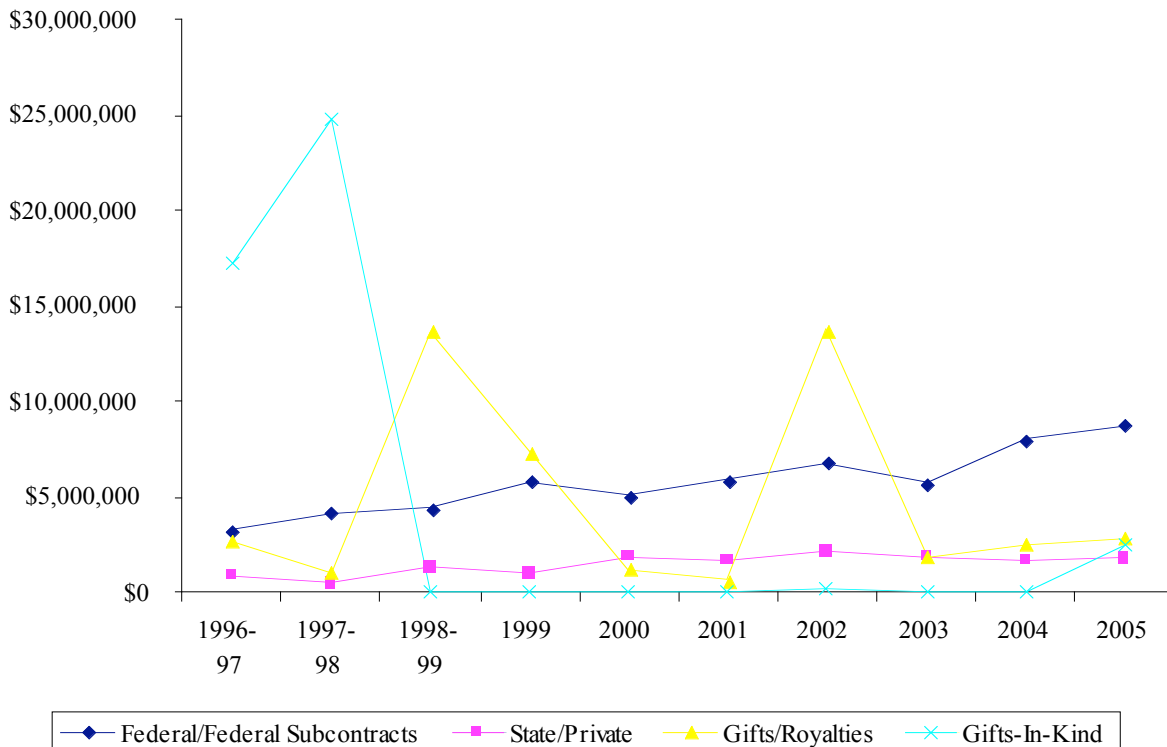
Proposal Submission Activity



External Research Funding (All Sources)

Year	Grants/Contracts		Gifts/Royalties	Gifts-In-Kind	Total
	Federal/Federal Subcontracts	State/Private			
1996-97	\$3,298,777	\$882,296	\$2,669,786	\$17,197,733	\$24,048,592
1997-98	\$4,212,196	\$509,340	\$1,087,926	\$24,867,922	\$30,677,384
1998-99	\$4,400,195	\$1,334,014	\$13,687,951	\$0	\$19,422,160
1999	\$5,837,930	\$1,018,434	\$7,362,951	\$0	\$14,218,628
2000	\$5,058,375	\$1,910,470	\$1,218,057	\$0	\$8,186,902
2001	\$5,885,021	\$1,755,752	\$649,494	\$0	\$8,290,267
2002	\$6,826,798	\$2,149,658	\$13,808,841*	\$244,295	\$23,029,592
2003	\$5,731,605	\$1,909,861	\$1,876,600	\$0	\$9,518,066
2004	\$8,037,592	\$1,745,891	\$2,564,760	\$0	\$12,348,243
2005	\$8,809,076	\$1,842,299	\$2,900,069	\$2,518,346	\$16,069,790

*Gift total does not include \$313 million PACE donation to College of Engineering and Technology



College of Engineering & Technology 2005 Awards

<u>PI</u>	<u>Co-PI</u>	<u>Sponsor</u>	<u>Title</u>	<u>Start Date</u>	<u>End Date</u>	<u>Type</u>	<u>Amount</u>	<u>N/C</u>
<i>Civil and Environmental Engineering</i>								
Benzley, Steven		Sandia Natl. Labs	Mesh Refinement Tasks	10/9/2003	9/30/2006	1	\$24,000	C
Guthrie, Spencer		UDOT	Preventative deck joint & Surface treatment.	5/6/2005	10/31/2005	3	\$53,000	C
Guthrie, Spencer		UDOT	Preventative Deck Joint & Surface Treatment Strategies	10/1/2003	6/30/2006	3	\$11,100	C
Guthrie, Spencer		UDOT	Full-Depth recycling and Stabilization of Pavement Base Layers	6/1/2005	12/31/2007	3	\$100,000	N
Guthrie, Spencer		Asphalt Zipper	Evaluation of Full-Depth Recycling of Pavement Base Layers	7/15/2005	1/15/2007	4	\$16,500	N
Guthrie, Spencer		Texas Trans. Inst	Tube Suction Testing	4/27/2005	8/31/2005	4	\$5,000	C
Hotchkiss, Rollin		EMS-I (FHWA)	Numerical Modeling of Culvert Hydraulics	8/1/2005	11/30/2006	2	\$56,881	N
Jones, Norm		Army Corp of Engineers	Hydrosystems Modeling, Mod 13	9/1/2002	10/31/2007	1	\$34,484	C
Jones, Norm		Army Corp of Engineers	Hydrosystems Modeling, Mod 18	9/1/2002	10/31/2007	1	\$106,000	C
Jones, Norm		Army Corp of Engineers	Hydrosystems Modeling, Mod 19	9/1/2002	10/31/2007	1	\$33,000	C
Jones, Norman		Army WES	Hydrosystems Modeling	9/1/2002	10/31/2007	1	\$25,000	C
Jones, Norman		Army WES	Hydrosystems Modeling	9/1/2002	10/31/2007	1	\$210,134	C
Jones, Norman		NAVY	Flux Calculations and 3D Visualizations for SCAPS	8/4/2005	12/31/2005	1	\$35,000	N
Miller, Wood		BOR	Pathemetry Pre-processing Work for CE-Qual W2	7/1/2005	9/26/2006	1	\$12,000	N
Miller, Wood		BOR	Bathemetry Pre-processing Work for CE-QUAL W2	7/1/2005	9/26/2006	1	\$6,000	C
Miller, Wood	w/Zundel, Alan	UDOT	Bridge Scour Countermeasure Phase II	5/1/2005	12/31/2007	3	\$22,497	N
Miller, Wood	w/Nelson., James	UDOT	Utah Run-Off Curve Numbers	2/1/2005	12/31/2005	3	\$7,500	N
Miller, Wood		Bureau of Reclamation	Bathemetry Pre-processing Works for CE-QUAL W2	7/1/2005	9/26/2006	1	-\$12,000	N
Nelson, James	w/ Jones, Norman	Army WES	Hydrosystems Modeling	9/1/2002	10/31/2007	1	\$25,000	C
Nelson, James	w/ Jones, Norm	Army Corp of Engineers	Hydrosystems Modeling, Mod 13	9/1/2002	10/31/2007	1	\$34,484	C
Nelson, James	w/ Jones, Norman	Army WES	Hydrosystems Modeling	9/1/2002	10/31/2007	1	\$210,133	C
Nelson, James	w/ Jones, Norm	Army Corp of Engineers	Hydrosystems Modeling, Mod 18	9/1/2002	10/31/2007	1	\$33,000	C
Nelson, James	w/ Jones, Norm	Army Corp of Engineers	Hydrosystems Modeling, Mod 19	9/1/2002	10/31/2007	1	\$33,000	C
Nelson, James	w/Miller, Wood	BOR	Pathemetry Pre-processing Work for CE-Qual W2	7/1/2005	9/26/2006	1	\$6,000	N
Nelson, James	w/Miller, Wood	BOR	Bathemetry Pre-processing Work for CE-QUAL W2	7/1/2005	9/26/2006	1	\$6,000	C
Nelson, James	w/Miller	Bureau of Reclamation	Bathemetry Pre-processing Works for CE-QUAL W2	7/1/2005	9/26/2006	1	\$6,000	N
Nelson, James		UDOT	Utah Run-Off Curve Numbers	2/1/2005	12/31/2005	3	\$7,500	N
Nelson, Jim	w/ Hotchkiss, Rollin	EMS-I (FHWA)	Numerical Modeling of Culvert Hydraulics	8/1/2005	11/30/2006	2	\$56,881	N
Nelson, Jim		UDOT	UDOT WMS Data Organization	1/1/2005	10/31/2006	3	\$15,000	N
Rollins, Kyle		National Academies	Liquification Mitigation Using Vertical Composite Drains	7/1/2004	12/31/2005	1	\$36,015	C
Rollins, Kyle		UDOT	Lateral Pile Cap and Backfill load Testing	8/29/2000	12/31/2004	3	\$7,200	C
Rollins, Kyle		UDOT	Loading Rate Effects on Axial Pile Capacity	10/1/2002	3/31/2006	4	\$5,586	C
Saito, Mitsuru		UDOT	Spatial & Temporal Analysis of Work Zone Crashes	5/1/2005	4/30/2006	3	\$12,947	N
Saito, Mitsuru		UDOT	Spatial & Temporal Analysis of Work Zone	5/1/2005	4/30/2006	3	\$22,659	C

Saito, Mitsuru		UDOT	Spatial & Temporal Analysis of Work Zone Crashes	5/1/2005	4/30/2006	3	\$22,659	C	
Schultz, Grant		UDOT	Assessing the Safety Impacts of Access Management Techniques	1/1/2005	12/31/2006	3	\$20,000	N	
Schultz, Grant		UDOT	Assessing the Economic Impacts of Transportation Improvement Projects	1/1/2005	21/31/06	3	\$34,500	N	
Zundel, Alan	w/ Jones, Norman	Army WES	Hydrosystems Modeling	9/1/2002	10/31/2007	1	\$25,000	C	
Zundel, Alan	w/ Jones, Norm	Army Corp of Engineers	Hydrosystems Modeling, Mod 13	9/1/2002	10/31/2007	1	\$34,484	C	
Zundel, Alan	w/ Jones, Norman	Army WES	Hydrosystems Modeling	9/1/2002	10/31/2007	1	\$210,133	C	
Zundel, Alan	w/ Jones, Norm	Army Corp of Engineers	Hydrosystems Modeling, Mod 18	9/1/2002	10/31/2007	1	\$33,000	C	
Zundel, Alan	w/ Jones, Norm	Army Corp of Engineers	Hydrosystems Modeling, Mod 19	9/1/2002	10/31/2007	1	\$33,000	C	
Zundel, Alan		UDOT	Bridge Scour Countermeasure Phase II	5/1/2005	12/31/2007	3	\$22,498	N	
Chemical Engineering									
Bartholomew, Calvin		U of Wisconsin (DOE)	Advanced Design of Cobalt Fischer-Tropsch Catalysts	9/30/2003	8/31/2006	2	\$87,403	C	
Baxter, Larry		DOE	Improved Recovery Boiler Performance	6/15/2002	6/14/2006	1	\$306,119	C	
Baxter, Larry	w/ Fletcher, Thomas	Forest Service	Fundamental Combustion Characteristics of Live Fuels	8/1/2001	9/1/2006	1	\$25,001	C	
Baxter, Larry		U of U (DOE)	Low Temperature Black Liquor Gasification	9/30/2002	4/30/2006	2	\$28,000	C	
Baxter, Larry		U of U (DOE)	Low Temperature Black Liquor Gasification....	9/30/2002	4/30/2006	2	-\$28,000	C	
Baxter, Larry		U of U (DOE)	Black Liquor Gasification	9/30/2004	9/29/2006	2	\$8,520	C	
Baxter, Larry		Alliant Energy	Alternative Fuels Testing	10/1/2004	10/1/2005	4	\$89,199	N	
Beckstead, Merrill		Naval Air Warfare Ctr.	Fast Cook-off Modeling of Energetic Materials	3/22/2005	3/22/2006	1	\$34,992	N	
Beckstead, Merrill		Naval Air Warfare Ctr	Reaction Chemistry for Multiphase Flow/Target Coupling	6/24/2005	6/23/2006	1	\$59,948	N	
Beckstead, Merrill		Software Eng. Assoc (ONR)	Fundamental Modeling of Propellant Ingredients	9/30/2001	3/31/2005	2	\$49,000	C	
Beckstead, Merrill		SEA (ONR)	Fundamental Modeling of Propellant Ingredients	9/30/2001	11/30/2005	2	\$35,000	C	
Beckstead, Merrill		Software Engineering Associates (ONR)	Fundamental Modeling of Propellant Ingredients.	9/30/2001	11/30/2005	2	\$30,000	C	
Beckstead, Merrill		U of U (DOE)	C-SAFE	12/16/2002	9/30/2005	2	\$67,500	C	
Beckstead, Merrill		ATK/Thiokol	Modeling Solid Propellant Combustion	6/8/2005	3/31/2005	4	\$10,000	N	
Beckstead, Merrill		ATK/Thiokol	Modeling Solid Propellant Combustion	6/8/2005	3/31/2006	4	\$40,000	C	
Fletcher, Thomas		Forest Service	Fundamental Combustion Characteristics of Live Fuels	8/1/2001	9/1/2006	1	\$25,002	C	
Fletcher, Thomas	w/ Bons, Jeffrey	Clemson (DOE)	Deposition of Alternative Fuels on Turbine Blades	8/1/2005	7/31/2006	2	\$67,024	N	
Fletcher, Tom		LANL	Improved Combustion Physics for the Wildland Fire Prediction Model	10/1/2003	9/30/2005	1	\$25,500	C	
Harb, John		NSF	Exploratory Methods for Nanowire Fabrication on Insulating Substrates	3/15/2005	2/28/2006	1	\$33,334	N	
Harb, John		ONR	Investigation of Mixed-Oxide Cathodes for rapid Charge Lithium Ion Batteries	8/12/2005	7/1/2006	1	\$37,483	N	
Harb, John	w/ Wheeler, Dean		High Performance Electrodes for the Next Generation Li-Ion Batteries	8/23/2004	9/30/2006	2	\$73,449	C	
Lewis, Randy		OSU (USDA)	Biomass Based Energy Research	9/1/2005	6/30/2006	2	\$36,000	N	
Pitt, William		NIH	Controlled Drug Delivery to Colon Tumors via Ultrasound	5/1/2004	4/30/2006	1	\$236,250	C	
Pitt, William		Becton Dickinson	Investigation of Bacterial Interactions with Needleless Devices	4/1/2005	7/30/2005	4	\$23,723	N	
Pitt, William		Becton Dickinson	Investigations of Bacterial Interactions w/ Needleless Access	4/1/2005	9/30/2005	4	\$6,000	C	
Rowley, Richard		DIPPR	Evaluated Process Design Database	8/1/1997	12/31/2005	4	\$285,000	C	
Terry, Ronald	w/Erekson, Thomas	Utah State U. (NSF)	National Center for Engineering & Technology Education	9/15/2004	8/31/2006	2	\$70,970	C	
Wheeler, Dean	w/ Harb, John	NSF	Exploratory Methods for Nanowire	3/15/2005	2/28/2006	1	\$33,333	N	

Wheeler, Dean	w/ Harb, John	ONR	Investigation of Mixed-Oxide Cathodes for rapid Charge Lithium Ion Batteries	8/12/2005	7/1/2006	1	\$37,483	N
Wheeler, Dean		USC (DOE)	High Performance Electrodes for the Next Generation Li-Ion Batteries	8/23/2004	9/30/2006	2	\$73,449	C
Wheeler, Dean		ACS/PRF	Novel Molecular Simulations	1/1/2005	8/31/2007	4	\$35,000	N
Electrical and Computer Engineering								
Beard, Randy	w/ Swindlehurst, Lee	NSF	Distributed Communications & Control for Air Vehicles	9/1/2004	8/31/2005	1	\$3,000	C
Beard, Randy	w/ Swindlehurst, L	NSF	Communications & Control for Unmanned Air Vehicles	9/1/2004	8/31/2006	1	\$50,711	C
Beard, Randy	w/ McLain, Tim	NASA	Automated Landing of Unmanned Air Vehicles	4/1/2003	3/31/2006	1	\$12,341	C
Beard, Randy	w/ Snyder, Deryl	Eglin AFB	Automated Micro-air Vehicles	5/2/2005	11/30/2006	1	\$24,984	C
Beard, Randy		SSCI (NASA)	Autonomous Surveillance Using Teams of UAV's	5/23/2005	5/22/2007	2	\$13,500	N
Beard, Randy		Intl. Fndtn. For Telemetering	Robot Soccer Program	6/5/2002	12/31/2010	4	\$3,000	C
Hawkins, Aaron		NSF	Integrated Optics Using Quantum State Control in Alkali Atoms	4/15/2005	3/31/2008	1	\$116,837	N
Hawkins, Aaron		NSF	Integrated Optical and Electrical Single Molecule Sensors	9/1/2005	8/31/2008	1	\$133,332	N
Hawkins, Aaron		U of CA, Santa Cruz (NIH)	Integrated Optical Waveguide Sensors	4/1/2004	3/31/2006	2	\$50,000	C
Hawkins, Aaron		UC Santa Cruz (AFRL)	Single-Photon Nonlinear Optics in Integrated Hollow-core	6/15/2005	6/14/2006	2	\$74,000	N
Hawkins, Aaron		Raytheon	Low Noise, High Gain Ionization Amplifiers	4/8/2005	8/19/2005	4	\$25,000	N
Hutchings, Brad	w/Nelson	Xilinx Corp	PMP Design	6/30/2003	5/15/2005	4	\$13,333	C
Jeffs, Brian	w/ Swindlehurst, Michael	NSF	Antenna Networks: High Capacity in Interference Environments	7/15/2003	6/30/2006	1	\$39,569	C
Jeffs, Brian		NSF	RFI Mitigation for Radio Astronomy on Array Feeds	9/15/2004	8/31/2006	1	\$65,263	C
Jeffs, Brian	w/ Warnick, Karl	NRAO (NSF)	Development of Real-time Interference Mitigation Instrumentation	3/1/2005	3/31/2006	2	\$58,950	N
Jensen, Michael	w/ Swindlehurst, Michael	NSF	Antenna Networks: High Capacity in Interference Environments	7/15/2003	6/30/2006	1	\$39,569	C
Jensen, Michael	w/ Jeffs, Brian	NSF	RFI Mitigation for Radio Astronomy on Array Feeds	9/15/2004	8/31/2006	1	\$65,263	C
Jensen, Michael	w/ Rice, Michael	Edwards AFB	Prototype Design of Aeronautical Telemetry Space Time Decoder System'	3/2/2005	11/31/05	1	\$109,239	N
Jensen, Michael	w/ Swindlehurst, Lee	UCSD (ARO)	Directional Routing & Scheduling for Secure Mobile Networks	6/1/2004	9/30/2007	2	\$64,149	C
Jensen, Michael		Utah COE	Advanced Communications	7/1/2004	6/30/2006	3	\$40,069	C
Jensen, Mike	w/ Swindlehurst, Lee	NSF	Distributed Communications & Control for Air Vehicles	9/1/2004	8/31/2005	1	\$3,000	C
Jensen, Mike	w/ Swindlehurst, Lee	NSF	Communications & Control for Unmanned Air Vehicles	9/1/2004	8/31/2006	1	\$50,711	C
Lee, DJ		NIH	Relevance Feedback Methods for Retrieval of Images	9/1/2005	8/31/2006	1	\$72,000	N
Long, David		NASA Goddard	Scatterometer Climate Record Pathfinder REASoN CAN	4/1/2004	3/31/2009	1	\$212,500	C
Long, David		NASA	HYDROS Science team: Brightness Product Definition	5/1/2005	4/30/2006	1	\$65,461	N
Long, David		NOAA	Operational Utilization of High Resolution Ocena Surface Wind Vectors	7/1/2003	6/30/2006	1	\$70,826	C
Long, David		Oregon (NASA)	Near Surface wind Modeling and Retrieval for Sea Winds	2/28/2005	12/31/2005	2	\$180,000	c
Long, David		JPL (NASA)	HYDROS Science Team: Radar Calibration	4/29/2005	10/30/2005	2	\$15,000	N
Nelson, Brent	w/ Rice, Michael	Edwards AFB	Prototype Design of Aeronautical Telemetry Space Time Decoder System'	3/2/2005	11/31/05	1	\$109,239	N
Nelson, Brent		Sandia National Lab	High-Speed Networking on Configurable Platforms	4/1/2005	9/30/2005	1	\$44,537	N
Nelson, Brent		Xilinx Corp	PMP Design	6/30/2003	5/15/2005	4	\$13,334	C
Nordine, Greg		Tetramer (Navy)	High Speed Electronically Tunable Fiber Optic Filter	11/26/2005	11/25/2006	2	\$21,000	N
Nordine, Greg		Clemson	Advanced Photonic Composites	10/10/2005	10/9/2006	2	\$673,560	N

		(DARPA)						
Rice, Michael		USAF	SHF Channel Modeling Over Sea-Based Test Ranges	5/1/2002	5/1/2006	1	\$51,000	C
Rice, Michael		Edwards AFB	Prototype Design of Aeronautical Telemetry Space Time Decoder System'	3/2/2005	11/31/05	1	\$109,240	N
Rice, Michael	w/ Jensen, M.	Utah COE	Advanced Communications	7/1/2004	6/30/2006	3	\$40,067	C
Schultz, Stephen		Navy Department	Compact Integrated Monitoring System for Fiber Sensors	4/14/2005	4/13/2006	1	\$82,135	N
Schultz, Stephen		IPITEK (DOD)	An Optical Fibre High-Speed Transducer for Hi Power Microwaves	7/19/2005	7/18/2006	2	\$40,915	N
Selfridge, Richard	w/ Schultz, Stephen	Navy Department	Compact Integrated Monitoring System for Fiber Sensors	4/14/2005	4/13/2006	1	\$82,134	N
Selfridge, Richard	w/Schultz, Stephen	IPITEK (DOD)	An Optical Fibre High-Speed Transducer for Hi Power Microwaves	7/19/2005	7/18/2006	2	\$40,915	N
Selfridge, Richard		ASNT	D-Fibre for Multidimensional Sensor Applications	7/22/2005	7/21/2007	4	\$15,000	N
Swindlehurst, Lee		NSF	Antenna Networks: High Capacity in Interference Environments	7/15/2003	6/30/2006	1	\$39,570	C
Swindlehurst, Lee		NSF	Distributed Communications & Control for Air Vehicles	9/1/2004	8/31/2005	1	\$3,000	C
Swindlehurst, Lee		NSF	Communications & Control for Unmanned Air Vehicles	9/1/2004	8/31/2006	1	\$50,711	C
Swindlehurst, Lee		UCSD (ARO)	Directional Routing & Scheduling for Secure Mobile Networks	6/1/2004	9/30/2007	2	\$64,150	C
Swindlehurst, Lee	w/ Jensen, Michael	Utah COE	Advanced Communications	7/1/2004	6/30/2006	3	\$40,067	C
Warnick, Karl	w/ Lee, Milton	NIH	Electromobility Focusing for Separation of Proteins	2/1/2003	11/31/06	1	\$113,084	C
Warnick, Karl	w/ Jeffs, Brian	NSF	RFI Mitigation for Radio Astronomy on Array Feeds	9/15/2004	8/31/2006	1	\$65,263	C
Warnick, Karl		NRAO (NSF)	Development of Real-time Interference Mitigation Instrumentation	3/1/2005	3/31/2006	2	\$58,950	N
Wirthlin, Michael		LANL	Improving the Reliability of FPGA Designs	2/10/2004	12/31/2005	1	\$100,859	C
Wirthlin, Michael		Los Alamos	Improving Reliability of FPGA Designs	2/1/2004	12/31/2005	1	-\$2	C
Wirthlin, Michael		USC (NASA)	RhINO Project: Computer Aided Design	6/1/2003	5/14/2006	2	\$24,566	C
Wirthlin, Michael		USC (NASA)	Computer Aided Design Infrastructure for FPGA Design Hardening	6/1/2003	5/14/2006	2	\$51,302	C
Wirthlin, Michael	w/Nelson	Xilinx Corp	PMP Design	6/30/2003	5/15/2005	4	\$13,333	C
Mechanical Engineering								
Adams, Brent		Army Research Office	Microstructure Sensitive Design	7/26/2004	11/25/2005	1	\$150,000	C
Adams, Brent		ARO	Microstructure Sensitive Design	7/26/2004	11/25/2006	1	\$31,250	C
Adams, Brent		AFOSR	Fundamental Role of Grain Boundaries	1/15/2005	12/31/2005	1	\$63,000	N
Baxter, Larry	w/ Tree, Dale	DOE/NETL	Investigation of Nitrogen Evolution & Corrosion with OxyCombustion	9/1/2005	8/31/2008	1	\$44,666	N
Beard, Randy	w/ McLain, Timothy	AFOSR	Cooperation and Consensus Seeking for Unmanned Air Vehicles	4/1/2004	3/31/2006	1	\$58,960	C
Beard, Randy		Utah COE	Unmanned Air Vehicles	7/1/2004	6/30/2006	3	\$65,000	C
Blotter, Jonathan		Dynamic Structures	Design of PZT Vibratory Mode Shaping Motor	1/1/2005	10/31/2005	4	\$20,256	N
Blotter, Jonathan	w/ Sommerfeldt, S	NSF	Development of Acoustic Energy Concepts	6/24/2005	6/23/2006	1	\$29,168	C
Blotter, Jonathan		Sandia	Analysis of Acoustic Array Configurations	1/21/2005	1/31/2006	1	\$58,703	N
Blotter, Jonathan	w/ Sommerfeldt, S	Utah COE	Acoustics Research Center	7/1/2005	6/30/2006	3	\$38,333	N
Bons, Jeffrey		Clemson (DOE)	Deposition of Alternative Fuels on Turbine Blades	8/1/2005	7/31/2006	2	\$67,025	N
Bowman, Jerry		EKU (Dept of Justice)	Using Small Unmanned Air Vehicles to Help Law Enforcement	6/1/2005	5/31/2006	2	\$10,752	N
Chase, Kenneth		Caterpillar Inc.	Variation Analysis of Involute Splines	12/31/2004	12/31/2005	4	\$51,713	N
Fletcher, Thomas	w/ Tree, Dale	DOE/NETL	Investigation of Nitrogen Evolution & Corrosion with OxyCombustion	9/1/2005	8/31/2008	1	\$44,666	N
Howell, Larry	w/Magleby, Spencer	TaylorMade Golf Co.	Research & Development Phase III	1/1/2005	4/30/2006	4	\$40,875	C
Howell, Larry		Nokia	Development of compliant Mechanism	5/31/2005	12/31/2005	4	\$60,000	N

Howell, Larry		Nokia	Development of compliant Mechanism Technologies	5/31/2005	12/31/2005	4	\$60,000	N
Jensen, Greg		Pratt & Whitney	CANMC Concept Tool Design, Task 20	1/11/2005	Open	4	\$24,000	N
Jensen, Greg		Pratt & Whitney	CANMC Concept Tool Design, Task 21	1/11/2005	Open	4	\$18,000	N
Jensen, Greg		Pratt & Whitney	Improved Automated Mesh for Auto Modeler	1/14/2005	12/31/2006	4	\$7,000	N
Jensen, Greg		Pratt & Whitney	PWAM Engine Loads & Dynamics Modeling	1/14/2005	12/31/2006	4	\$4,500	N
Jensen, Greg		Pratt & Whitney	Flowpath Design Tool Task #24	2/2/2005	12/31/2006	4	\$52,000	N
Jensen, Greg		Pratt & Whitney	Task 24 Flowpath Design Tool	2/2/2005	12/31/2006	4	\$382	C
Jensen, Greg		Pratt & Whitney	Hollow Fan Blade Tool Development Task #25	2/25/2005	12/31/2006	4	\$100,000	N
Jensen, Greg		Pratt & Whitney	Task #26: Electronic Enterprise Engineering	1/1/2005	12/31/2005	4	\$40,000	N
Jensen, Greg		Pratt & Whitney	Restructuring the AutoModeler; Task #27	9/14/2005	12/31/2010	4	\$9,000	N
Magleby, Spencer	w/ Todd, Robert	ONR	Anchor System for Small Submersibles	3/14/2005	3/13/2006	1	\$9,250	N
Magleby, Spencer	w/Todd, Robert	KAPL (ONR)	Electromagnetic Pumping of Metal Liquids	9/28/2004	4/30/2005	2	\$9,250	N
Magleby, Spencer	w/ Todd, Robert	KAPL (DOE)	Electromagnetic Pumping of Liquid Metals	9/28/2004	9/27/2005	2	\$9,250	n
Magleby, Spencer	w/ Todd, Robert	KAPL (DOE)	Electromagnetic Pumping of Metal Liquids	9/1/2004	6/30/2005	2	\$7,100	C
Magleby, Spencer		TaylorMade Golf Co.	Research & Development Phase III	1/1/2005	4/30/2006	4	\$40,875	C
Magleby, Spencer	w/ Howell, Larry	Nokia	Development of compliant Mechanism Technologies	5/31/2005	12/31/2005	4	\$60,000	N
Maynes, Daniel		Concepts ETI, Inc	Centrifugal Flow Impellers	1/1/2005	12/31/2005	4	\$39,753	N
McLain, Tim	w/ Swindlehurst, Lee	NSF	Distributed Communications & Control for Air Vehicles	9/1/2004	8/31/2005	1	\$3,000	C
McLain, Tim	w/ Swindlehurst, Lee	NSF	Communications & Control for Unmanned Air Vehicles	9/1/2004	8/31/2006	1	\$50,711	C
McLain, Tim	w/Goodrich, M.	NSF	UAV-Enabled Wilderness Search and Rescue	11/1/2005	10/31/2008	1	\$167,142	N
McLain, Tim		NASA	Automated Landing of Unmanned Air Vehicles	4/1/2003	3/31/2006	1	\$12,342	C
McLain, Tim	w/ Snyder, Deryl	Eglin AFB	Automated Micro-air Vehicles	5/2/2005	11/30/2006	1	\$24,984	C
McLain, Tim	w/ Beard, Randy	SSCI (NASA)	Autonomous Surveillance Using Teams of UAV's	5/23/2005	5/22/2007	2	\$13,500	N
McLain, Tim		Utah COE	Unmanned Air Vehicles	7/1/2004	6/30/2006	3	\$65,000	C
McLain, Tim		AFOSR	Cooperation and Consensus Seeking for Unmanned Air Vehicles	4/1/2004	3/31/2006	1	\$58,960	C
Nelson, Tracy		NSF	Friction Stir Process Cooperative Agreement	9/1/2004	8/31/2006	1	\$25,000	C
Nelson, Tracy		ONR	High Integrity Weldments Via the Friction Stir Process	4/15/2005	4/14/2006	1	\$650,000	N
Nelson, Tracy		Oak Ridge Natl. Lab	Friction Stir Processing Industry Co-op Research	9/3/2004	8/31/2009	4	\$35,000	N
Snyder, Deryl		Air Force Research Lab	Aerodynamics and Control of Autonomous Micro Air Vehicles	5/2/2005	11/30/2005	1	\$24,986	N
Snyder, Deryl		Eglin AFB	Automated Micro-air Vehicles	5/2/2005	11/30/2006	1	\$74,970	C
Sorensen, Carl		NSF	Friction Stir Process Cooperative Agreement	9/1/2004	8/31/2006	1	\$25,000	C
Sorenson, Carl	w/ Nelson, Tracy	ONR	High Integrity Weldments Via the Friction Stir Process	4/15/2005	4/14/2006	1	\$650,000	N
Thomson, Scott		Purdue (NIH)	Development of Self-oscillating Vocal Fold Models	11/1/2005	6/30/2006	2	\$33,750	N
Todd, Robert		KAPL (ONR)	Electromagnetic Pumping of Metal Liquids	9/28/2004	4/30/2005	2	\$9,250	N
Todd, Robert		KAPL (DOE)	Electromagnetic Pumping of Metal Liquids	9/1/2004	6/30/2005	2	\$7,100	C
Todd, Robert H		ONR	Anchor System for Small Submersibles	3/14/2005	3/13/2006	1	\$9,250	N
Todd, Robert H		KAPL (DOE)	Electromagnetic Pumping of Liquid Metals	9/28/2004	9/27/2005	2	\$9,250	n
Tree, Dale		DOE/NETL	Investigation of Nitrogen Evolution & Corrosion with OxyCombustion	9/1/2005	8/31/2008	1	\$44,668	N
Tree, Dale	w/ Baxter, Larry	U of U (DOE)	Low Temperature Black Liquor Gasification	9/30/2002	4/30/2006	2	\$28,000	C
Tree, Dale		U of U (DOE)	Black Liquor Gasification	9/30/2004	9/29/2006	2	\$16,480	C

School of Technology

Chabries, Doug	U of U (NASA)	Rocky Mtn. Utah Space Grant & Fellowship Program	1/1/2005	12/31/2005	2	\$25,000	N
Erekson, Thomas	Utah State U. (NSF)	National Center for Engineering & Technology Education	9/15/2004	8/31/2006	2	\$70,971	C
Miles, Mike	SME	Formability of Friction Stir Welded High Strength Sheet Steel	6/1/2005	5/31/2005	4	\$15,000	N

Type: 1=Federal; 2=Federal Subcontract; 3=State; 4=Private N/C: N=New; C=Continuing

Department Totals	
Chemical Engineering	\$1,941,682
Civil & Environmental Engineering	\$1,676,116
Electrical & Computer Engineering	\$3,619,536
Mechanical Engineering	\$3,303,070
School of Technology	\$110,971
College Total:	\$10,651,375

Engineering & Technology

Source Breakdown of Grants and Contracts

Sponsor	Number Awarded	Total Amount
Federal		
AFOSR	2	\$180,920
AFRL	1	\$24,986
Army Corp. of Engineers	3	\$374,452
Army Research Office	1	\$150,000
Army WES	2	\$705,400
ARO	1	\$31,250
BOR	1	\$24,000
DOE	2	\$440,119
Edwards AFB	1	\$327,718
Eglin AFB	1	\$124,938
Forest Service	1	\$50,003
Los Alamos Natl. Lab	2	\$126,357
NASA	3	\$302,644
National Academy of Science	1	\$36,015
Naval Air Warfare Center	2	\$94,940
Navy	2	\$199,269
NIH	2	\$421,334
NOAA	1	\$70,826
NSF	9	\$1,092,487
ONR	3	\$1,393,466
Sandia	3	\$127,240
US Air Force	1	\$51,000
Total	46	\$6,349,364
Subcontracts		
Clemson (DARPA)	1	\$673,560
Clemson (DOE)	1	\$134,049
EKU (Dept. of Justice)	1	\$10,752
EMS-I (FHWA)	1	\$113,762
IPITEK	1	\$81,830
JPL (NASA)	1	\$15,000
KAPL (DOE)	2	\$32,700
KAPL (ONR)	1	\$18,500
NRAO	1	\$117,900

Oregon State (NASA)	1	\$180,000
OSU (USDA)	1	\$36,000
Purdue (NIH)	1	\$33,750
Scientific Systems (NASA)	1	\$27,000
Software Engineering Association	3	\$114,000
Tetramer (Navy)	1	\$21,000

Engineering & Technology

Source Breakdown of Grants and Contracts

<u>Sponsor</u>	<u>Number Awarded</u>	<u>Total Amount</u>
Subcontracts, cont.		
U of CA, Santa Cruz (AFRL)	1	\$74,000
U of CA, Santa Cruz (NIH)	1	\$50,000
U of Utah (DOE)	3	\$120,500
U of Utah (NASA)	1	\$25,000
USC (DOE)	1	\$146,898
U of Wisconsin (DOE)	1	\$87,403
UCSD (ARO)	1	\$128,299
USC (NASA)	2	\$75,868
USU (NSF)	1	\$141,941
Total	30	\$2,459,712
State		
UDOT	11	\$336,401
Utah Centers of Excellence	3	\$288,536
Total	14	\$624,937
Private		
ACS/PRF	1	\$35,000
Alliant Energy	1	\$89,199
ASNT	1	\$15,000
Asphalt Zipper	1	\$16,500
ATK/Thiokol	2	\$50,000
Becton Dickenson	2	\$29,723
Caterpillar Inc.	1	\$51,713
Concepts ETI, Inc.	1	\$39,753
DIPPR	1	\$285,000
Dynamic Structures	1	\$20,256
Intl. Foundation for Telemetry	1	\$3,000
Nokia	1	\$120,000
Oak Ridge Natl. Lab	1	\$35,000
Pratt & Whitney	9	\$254,882
Raytheon	1	\$25,000
SME	1	\$15,000

Taylor Made Golf	1	\$81,750
Texas Transportation Inst.	1	\$5,000
UDOT	1	\$5,586
Xilinx	1	\$40,000
Total	30	\$1,217,362