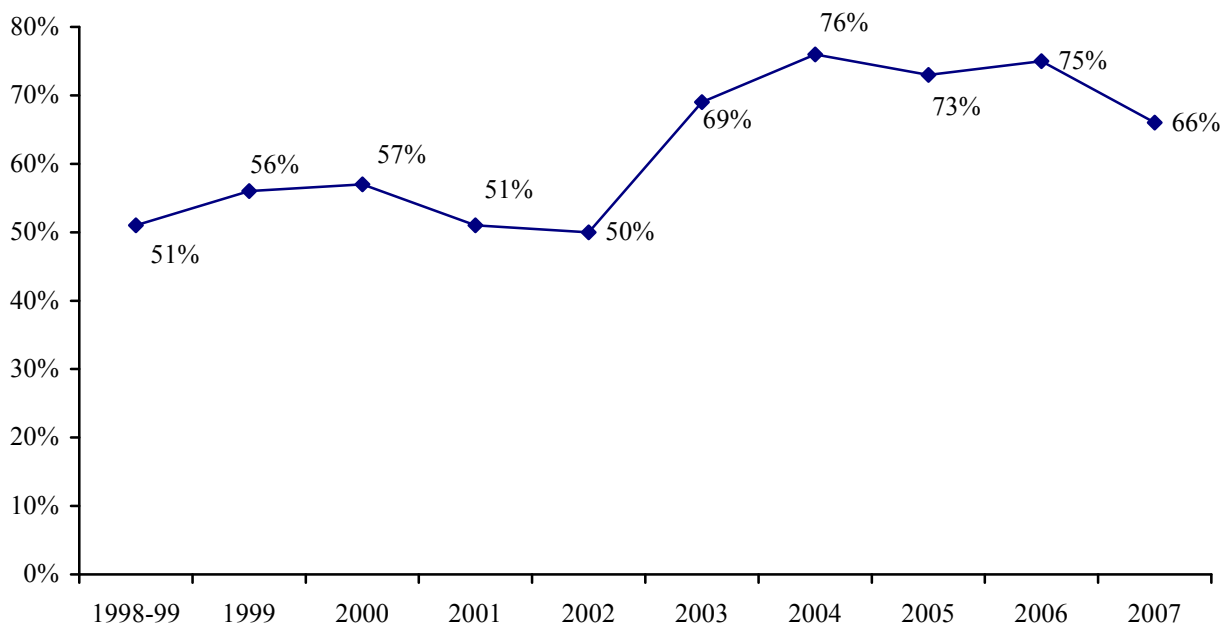


Fulton College of Engineering & Technology

Summary of Sponsored Research (Grants & Contracts)

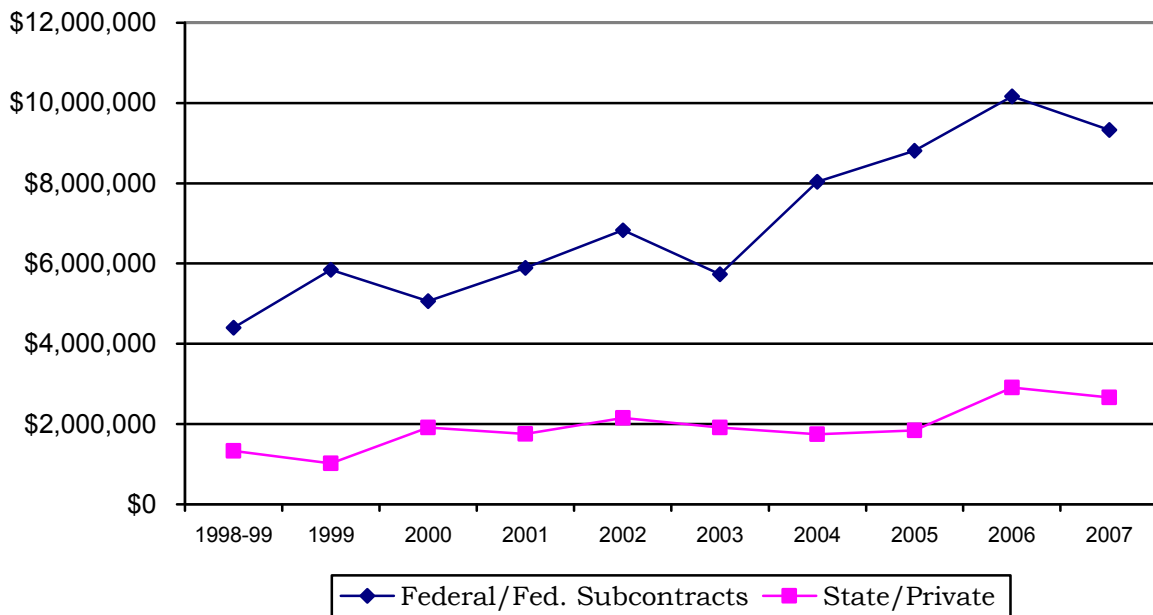
Department	# of Faculty	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Chemical Engineering	13	10	25	30	\$3,179,394
Civil & Environmental Engineering	17	11	21	27	\$1,668,970
Electrical & Computer Engineering	22	18	52	49	\$4,547,095
Mechanical Engineering	23	20	38	38	\$2,559,908
School of Technology	22	5	4	1	\$5,000
TOTALS	97	64	140	145	\$11,960,367

Proposal Submission Activity



External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
1998-99	\$4,400,195	\$1,334,014	\$5,734,209
1999	\$5,837,930	\$1,018,434	\$6,856,364
2000	\$5,058,375	\$1,910,470	\$6,968,845
2001	\$5,885,021	\$1,755,752	\$7,640,773
2002	\$6,826,798	\$2,149,658	\$8,976,456
2003	\$5,731,605	\$1,909,861	\$7,641,466
2004	\$8,037,592	\$1,745,891	\$9,783,483
2005	\$8,809,076	\$1,842,299	\$10,651,375
2006	\$10,164,290	\$2,905,036	\$13,069,326
2007	\$9,329,809	\$2,657,764	\$11,987,573



College of Engineering & Technology 2007 Awards

<u>PI</u>	<u>Co-PI</u>	<u>Sponsor</u>	<u>Title</u>	<u>Start Date</u>	<u>End Date</u>	<u>Amount</u>
<i>Civil & Environmental Engineering</i>						
Fonseca, Fernando		SW Management	Axial Capacit of Endura Wall System	2/1/2007	8/10/2007	\$39,023
Gerber, Travis		USGS	Liquification Induced Ground Failure Maps	12/1/2006	11/31/07	\$10,000
Gerber, Travis		NSF	Dynamic Passive Pressure on Full Scalepile Caps	10/1/2004	9/30/2008	\$10,500
Gerber, Travis		UDOT	Assessment & Analysis of MSE Wall Inventory	4/1/2007	9/1/2008	\$29,670
Guthrie, Spencer		UDOT	Corrosion of Steel in Concrete Bridge Decks	12/1/2006	12/31/2008	\$30,000
Guthrie, Spencer	w/McBride, John	Nye County, NV	Geophysical & Geological Investigation of Sub-surface Hydrogeology	7/1/2007	6/15/2008	\$19,427
Guthrie, Spencer		UAF (USDOT)	Reduction of Base Courses During Thawing	9/1/2007	6/30/2009	\$9,337
Guthrie, Spencer		UDOT	Use of Falling-Weight Deflectometer Data for Pavement Management	12/1/2007	7/31/2009	\$14,000
Hotchkiss, Rollin		UDOT	Fish Passage in Utah Culverts	6/1/2006	6/1/2008	\$17,479
Hotchkiss, Rollin		UDOT	Fish Passage in Utah Culverts	6/1/2006	6/1/2008	\$27,500
Hotchkiss, Rollin		CUWCD	Sediment movment and sediment composition in Hobble Creek	3/1/2007	8/27/2007	\$7,025
Hotchkiss, Rollin		UDOT	Fish Passage in Utah Culverts	6/1/2006	6/1/2008	\$27,500
Hotchkiss, Rollin		EMS-I (FHWA)	Numerical Modeling of Culvert Hydraulics	9/1/2005	2/28/2008	\$25,000
Hotchkiss, Rollin		UDOT	Fish Passage at Rehabilitated Culverts - Phase 1	11/1/2007	6/1/2009	\$63,827
Jones, Norm		Auburn (DOE)	Modeling methods and tools for porous media	1/1/2007	12/31/2007	\$32,640
Jones, Norm		Army WES	Hydrosystems Modeling	9/1/2002	10/31/2007	\$517,000
Jones, Norman		Army WES	Hydrosystems Modeling amendment #27	9/1/2002	10/31/2007	\$73,334
Jones, Norman		Army WES	Hydrosystems Modeling amendment #26	9/1/2002	10/31/2007	\$10,000
Jones, Norman		Army WES	SMS Cascade Version 1, #29	9/1/2002	10/31/2007	\$15,000
Jones, Norman		Army WES	Tidal Analysis Toolbox, #30	9/1/2002	10/31/2007	\$13,000
Jones, Norman		Army WES	SMS 10.2, #31	9/1/2002	10/31/2007	\$39,048
Nelson, E. James	w/Hotchkiss, Rollin	EMS-I (FHWA)	Numerical Modeling of Culvert Hydraulics	9/1/2005	2/28/2008	\$25,000
Nelson, James	w/ Jones, Norm	Army WES	Hydrosystems Modeling amendment #27	9/1/2002	10/31/2007	\$73,333
Nelson, James	w/ Jones, Norm	Army WES	Hydrosystems Modeling amendment #26	9/1/2002	10/31/2007	\$10,000
Nelson, James		Bureau of Reclamation	Reservoir Modeling and Supporting Montioring Needs	8/2/2007	9/30/2009	\$11,000
Nelson, Jim		American Inst. of Steel Const	Performance of EBF Links with Reduced Web Section	9/1/2007	1/1/2008	\$15,000
Richards, Paul			Stone Column Treatment with Wick Drains in Sand	11/1/2006	7/1/2008	\$49,243
Rollins, Kyle	w/ Gerber, Travis	UDOT	Dynamic Passive Pressure on Full Scalepile Caps	10/1/2004	9/30/2008	\$10,500
Rollins, Kyle		NSF	Dynamic Passive Pressure on Full Scalepile Caps	10/1/2004	9/30/2008	\$10,500
Saito, Mitsuru		UDOT	Analysis of Work Zone Crashes (April 2007)	5/1/2005	12/31/2007	\$2,200
Schultz, Grant		State of UT (UDOT)	Crashes in the Vicinity of Major Crossroads	9/1/2007	12/31/2007	\$40,000
Williams, Gus		DOE	Incorporating Geometric Info. into Hyperspectral Analysis	1/1/2006	1/1/2006	\$240,000
Williams, Gus	w/Nelson, Jim	Bureau of Reclamation	Reservoir Modeling and Supporting Montioring Needs	8/2/2007	9/30/2009	\$11,000
Williams, Gustavious		Natl Security Tech (DOE)	Low Wind Speed Air Trasnport Modeling and Experiments	4/18/2007	11/30/2007	\$15,000
Zundel, Alan	w/ Jones, Norm	Army WES	Hydrosystems Modeling amendment #27	9/1/2002	10/31/2007	\$73,333
Zundel, Alan	w/ Jones, Norm	Army WES	Hydrosystems Modeling amendment #26	9/1/2002	10/31/2007	\$10,000
<i>Chemical Engineering</i>						
Bartholomew, Cal		Fischer Tropsch (Int. Composting Corp)	Fischer Tropsch Consortium Agreement	7/15/2007	7/14/2008	\$15,000
Bartholomew, Calvin		Kryogen, USA, LLC	Fischer-Tropsch Research Consortium Agreement	8/8/2007	7/14/2008	\$15,000
Bartholomew, Calvin		Ceramatec	Fischer-Tropsch Research Consortium Agreement	7/15/2007	7/14/2008	\$15,000
Bartholomew, Calvin	w/ Hecker, William	INL (DOE)	FT Reactor Model and Experimental support	12/10/2007	9/30/2008	\$12,500
Baxter, Larry		Metso Power Oy	Metso Internships for Jason Bray and Jacob Beutler	5/1/2007	8/31/2007	\$62,000

Baxter, Larry		INL	Gasification Slag Analysis	8/1/2007	9/30/2007	\$16,770
Baxter, Larry		GE	Coal Gasification Technology	1/1/2006	12/31/2008	\$74,500
Baxter, Larry	w/Maynes, Dan	GE	Coal Gasification Technology	1/1/2006	12/31/2008	\$26,250
Baxter, Larry		INL	Gasification Model Development	8/1/2007	9/30/2008	\$59,273
Baxter, Larry		Metso Power	Metso Internships	5/1/2007	8/31/2007	\$2,798
Beckstead, Merrill		SEA (AFOSR)	Modeling Solid Propellant Combustion	8/1/2006	4/30/2007	\$30,227
Beckstead, Merrill		SEA (ONR)	Fundamental Modeling of Propellant Ingredients	9/30/2001	12/31/2007	\$50,000
Beckstead, Merrill		CFDRC	Fast Cook-off Modeling of Energetic Materials	4/16/2007	9/15/2007	\$23,989
Beckstead, Merrill		ATK/Thiokol	Modeling Solid Propellant Combustion Using Parpack	6/8/2005	3/28/2008	\$50,000
Beckstead, Merrill		Software & Eng. Assoc. (ONR)	Fundamental Modeling for Propellant Ingredients	12/1/2004	12/31/2007	\$50,000
Beckstead, Merrill		ATK Launch Systems	Fast Cook-off Modeling of Energetic Materials	6/8/2005	12/26/2008	\$25,000
Beckstead, Merrill		ATK Launch Systems	Fast Cook off Modeling of Materials (Apr 07)	6/8/2005	12/26/2008	\$8,916
Fletcher, Thomas		Siemens Inc.	Nitrogen Evolution During Coal Pyrolysis	1/4/2007	9/1/2007	\$50,250
Fletcher, Thomas		U of Ut(Chevron)	A Reaction Model for Oil Shale	1/1/2007	12/31/2007	\$66,622
Fletcher, Thomas		USDA Forest Service	Combustion Characteristics of Live Wildland Fuels	8/1/2006	9/30/2008	\$20,000
Fletcher, Thomas		DOE (SCIES)	Deposition of Alt Fuels (Syngas) on Turbine Blades w/ Film Cooling	8/1/2005	7/31/2008	\$67,664
Fletcher, Tom	w/ Bons, Jeff	Clemson (DOE)	Deposition of Syngas Fuels on Turbine Blades	8/1/2005	1/31/2008	\$33,832
Harb, John		NSF	Chemically Directed Surface Alignment/Wiring-Nannoelectrical Circuit	7/1/2007	6/30/2011	\$200,000
Harb, John N.		John Hopkins (NIH)	Power Harvesting in Implanted Neural Probes	4/4/2006	4/30/2008	\$38,750
Harb, John N.	w/Wheeler, Dean	UCU (LBL)	High Performance Electrodes for Li-Ion Batteries	8/23/2004	8/31/2008	\$75,745
Hecker, Bill	w/Bartholomew, Calvin	Ceramatec	Fischer-Tropsch Research Consortium Agreement	7/15/2007	7/14/2008	\$15,000
Hecker, William	w/Bartholomew, Calvin	Kryogen, USA, LLC	Fischer-Tropsch Research Consortium Agreement	8/8/2007	7/14/2008	\$15,000
Hecker, William	w/Bartholomew, Cal	Fischer Tropsch (Int. Composting Corp)	Fischer Tropsch Consortium Agreement	7/15/2007	7/14/2008	\$15,000
Hecker, William		INL (DOE)	FT Reactor Model and Experimental support	12/10/2007	9/30/2008	\$12,500
Lewis, Randy		OSU (Coskata, Inc.)	Syngas Conversion to Ethanol Research	12/4/2006	12/3/2008	\$276,036
Lewis, Randy		OSU (USDA)	Bio-mass Based Energy Renewal	7/1/2006	6/30/2007	\$35,000
Lewis, Randy		OSU (DOT)	Effects of Syngas Sources on Ethanol Production	7/1/2007	12/31/2007	\$22,452
Oscarson, John	w/ Izatt, Reed	US Army	Modeling and Thermodynamic Study	8/1/2006	12-31-07	\$60,000
Oscarson, John	w/ Rowley, Richard	AICHe	Evaluated Pure Chemical Database	1/1/1998	12/31/2010	\$100,000
Oscarson, John L.	w/Rowley, Richard	AICHe	DIPPR 801: Evaluated Pure Chemical Database	8/1/1997	12/31/2010	\$108,333
Oscarson, John L.	w/ Izatt, Reed	ONRRO Seattle	Modeling and Thermodynamic Study	8/1/2006	12/31/2008	\$60,000
Rowley, Richard		AICHe	Evaluated Pure Chemical Database	1/1/1998	12/31/2010	\$100,000
Rowley, Richard		AICHe	DIPPR 801: Evaluated Pure Chemical Database	8/1/1997	12/31/2010	\$108,334
Terry, Ron		USU (NSF)	National Center for Engineering and Tech Education	9/15/2004	8/31/2008	\$103,157
Wheeler, Dean		UCU (LBL)	High Performance Electrodes for Li-Ion Batteries	8/23/2004	8/31/2008	\$75,745
Wheeler, Dean	w/ Gerald Watt	NASA	Electroanalysis Research	6/4/2007	6/3/2008	\$80,000
Wheeler, Dean	w/Harb, John	NSF	Chemically Directed Surface Alignment/Wiring-Nanoelectrical Circuits	7/1/2007	6/30/2011	\$200,000
Wilding, Vincent	w/ Rowley, Richard	AICHe	Evaluated Pure Chemical Database	1/1/1998	12/31/2010	\$100,000
Wilding, W. Vincent	w/Rowley, Richard	AICHe	DIPPR 801: Evaluated Pure Chemical Database	8/1/1997	12/31/2010	\$108,333
<i>Electrical & Computer Engineering</i>						
Archibald, James		Procerus	Real Time High Resolution RGB Bayer Pattern Conversion	5/8/2006	Open	\$1,800
Archibald, James	w/Lee, D. J	NIH	multiple image components with spatial and geometrical constraints	9/27/2007	9/26/2008	\$25,000
Beard, Randal		Scientific Sys. (Air Force)	Collision Detection & Avoidance for Micro Air Vehicles	7/14/2006	4/14/2007	\$7,500
Beard, Randal		SET Corp. (AFRL)	UAV UGV Urban Tracking Effort Phase1	4/26/2007	10/26/2007	\$33,333

Beard, Randal		Scientific Systems (NASA)	Surveillance of Forest Fires Using Teams of UAV's	5/23/2005	11/22/2007	\$12,500
Beard, Randal		SSCI (Air Force)	Visual Collision Detection & Avoidance for Micro Air Vehicle	9/1/2007	9/9/2008	\$41,720
Beard, Randal		NSF	Communication & Control for Multiple Unmanned Air Vehicles	9/1/2004	8/31/2009	\$83,330
Beard, Randall		NSF	2007 American Control Conference - Student Travel Grant	9/1/2007	8/31/2008	\$16,500
Beard, Randy	w/ McLain, Tim	INL	Deployment & Tracking for Micro Air Vehicles	1/11/2007	12/31/2007	\$37,992
Beard, Randy		SSCI (NASA)	Autonomous Surveillance of Forest Fires with UAV's	3/23/2005	5/22/2007	\$82,500
Beard, Randy		NSF	Communications and Control for Multiple Miniature Unmanned Air Vehicles	9/1/2004	8/31/2008	\$50,732
Hawkins, Aaron		U of Santa Cruz (NIH)	Biomedical Sensors Using Integrated Optical Waveguides	4/1/2006	1/31/2008	\$105,408
Hawkins, Aaron		U of Santa Cruz (AFOSR)	Single-photon Nonlinear Optics in Integrated Hollow-core Waveguides	6/15/2005	12/14/2007	\$86,600
Hawkins, Aaron		NSF	Integrated Optics Using Quantum State Control	4/15/2005	3/31/2008	\$6,000
Hawkins, Aaron		NSF	Integrated Optical & Electrical Single Molecule Sensors	9/1/2005	8/31/2008	\$6,000
Hawkins, Aaron		NSF	Impact Ionization Based Multipliers for Optical Receivers	4/15/2007	3/31/2010	\$270,000
Hawkins, Aaron		U of CA, Santa Cruz(NIH)	Single Biomedical Sensors Using Optical Waveguides	4/1/2006	1/31/2008	\$22,531
Hawkins, Aaron		NSF	Acquisition of chlorine based reactive etcher	6/1/2007	5/30/2010	\$60,000
Huckaby, Jacob	w/Nordin, Greg	NSF	MEMS Based Chemical & Biological Sensors	7/31/2006	8/31/2007	\$10,000
Hutchings, Brad	w/ Wirthlin, M.	DARPA / WPAFB	FPGA Design Methods and Tool Flows	9/1/2007	5/31/2008	\$116,155
Jeffs, Brian		NSF	FRI Mitigation for Radio Astronomy w/ Emphasis on Array Feeds	9/15/2004	8/31/2008	\$7,500
Jensen, Brian	w/ Hawkins, Aaron	NSF	Acquisition of chlorine based reactive etcher	6/1/2007	5/30/2010	\$60,000
Jensen, Michael	w/Rice, Michael	Edwards AFB	Design of Aeronautical Telemetry Space-Time Decoder	3/2/2005	12/10/2007	\$64,050
Jensen, Michael	w/ Beard, Randy	NSF	Communications and Control for Multiple Miniature Unmanned Air Vehicles	9/1/2004	8/31/2008	\$50,732
Jensen, Michael	w/Brian Jeffs	NSF	FRI Mitigation for Radio Astronomy w/ Emphasis on Array Feeds	9/15/2004	8/31/2008	\$7,500
Jensen, Michael		UCSD (ARO)	Directional Routing & Scheduling for Secure Mobile Ad-hoc Networks	6/1/2004	12/31/2007	\$134,228
Jensen, Michael	w/ Beard, Randal	NSF	Communication & Control for Multiple Unmanned Air Vehicles	9/1/2004	8/31/2009	\$83,330
Jensen, Michael		UCDavis (Army)	Architecture for Secure resilient Tactical mobile ad hoc networks	6/1/2007	11/30/2010	\$305,000
Lee, D. J.		NIH	multiple image components with spatial and geometrical constraints	9/27/2007	9/26/2008	\$25,000
Lee, DJ	w/ Archibald, James	Procerus	Real Time High-Res RGB Bayer Pattern Conversion for NTSC Video	5/8/2006	Open	\$1,800
Long, David		Uof CO Boulder (NASA)	Investigations of Sea Ice Processes from EOS Sensors	9/1/2004	8/31/2007	-\$36,171
Long, David		NASA	Scatterometer Climate Record Pathfinder	4/1/2002	3/31/2009	\$290,000
Long, David		JPL (NASA)	Ultra High Resolution Wind, Backscatter, Brightness Temp.	5/16/2006	7/13/2007	\$1,220
Long, David		USU/SDL (NASA)	BYU microSAR fabrication and upgrade	5/1/2006	6/30/2008	\$41,000
Long, David		NSF	Collaborative Research: Free Drifting Icebergs	9/1/2007	8/31/2008	\$7,541
Long, David		JPL (NASA)	Ultra High Resolution Backscatter and Brightness Temps.	5/16/2006	6/27/2010	\$189,222
Long, David		NESDIS/NOAA	Ultra High Spatial Resolution Wind Retrievals	9/21/2007	6/20/2008	\$66,500
Long, David		U of U (NASA)	Space Grant Program	3/1/2005	2/28/2008	\$18,000
Long, David		USU (DOD)	MicroSAR Fabrication and Upgrade (Sep/Nov award/reduction)	5/1/2006	11/15/2007	\$7,478
Long, David G		Uof U (NASA)	Space Grant Program	3/1/2005	2/28/2008	\$32,000
McLain, Tim	w/Beard, Randy	NSF	Communications and Control for Multiple Miniature Unmanned Air Vehicles	9/1/2004	8/31/2008	\$50,732
McLain, Timothy	w/ Beard, Randal	NSF	Communication & Control for Multiple Unmanned Air Vehicles	9/1/2004	8/31/2009	\$83,330
Moon, Todd	w/Beard, Randy	NSF	Communications and Control for Multiple Miniature Unmanned Air Vehicles	9/1/2004	8/31/2008	\$50,732
Nelson, Brent		NSF	Brigham Young University to Join the I/UCRC CHREC Center	2/15/2007	1/31/2008	\$5,000
Nelson, Brent	w/Rice, Michael	Edwards AFB	Design of Aeronautical Telemetry Space-Time Decoder	3/2/2005	12/10/2007	\$64,050
Nelson, Brent		Sandia (DOE)	Center for High-Performance Reconfigurable Computing	8/1/2007	7/31/2008	\$17,500
Nelson, Brent	w/ Wirthlin, M.	DARPA / WPAFB	FPGA Design Methods and Tool Flows	9/1/2007	5/31/2008	\$116,155
Nelson, Brent		Rincon Research Corp.	Center for High Performance reconfigurable Computing	11/27/2007	11/26/2008	\$17,500
Nordin, Greg	w/ Hawkins,	NSF	Acquisition of chlorine based reactive etcher	6/1/2007	5/30/2010	\$60,000

Aaron						
Nordin, Greg		NSF	MEMS Based Chemical & Biological Sensors	7/31/2006	8/31/2007	\$10,000
Nordin, Greg		ACTR	Prototype Device Fabrication	8/9/2006	12/31/2007	\$43,301
Nordin, Greg		NSF	MEMS Based Chemical & Biological Sensors	7/31/2006	2/29/2008	\$96,000
Nordin, Greg		Innolume, Inc.	Silicon Photonic Device Development	9/20/2007	12/31/2007	\$43,111
Rice, Michael		Edwards AFB	Design of Aeronautical Telemetry Space-Time Decoder Evaluating the Accuracy Level of Truck Traffic Data	3/2/2005	12/10/2007	\$64,051
Saito, Mitsuru		UDOT		7/1/2007	12/31/2008	\$45,000
Schultz, Stephen		NAVY	D-Fibre Sensors in Harsh Environments Optical fibre Transducer for High Power Microwaves	4/25/2006	1/16/2008	\$243,400
Schultz, Stephen		IPITEK	Optical Fibre Transducer for High Power Microwaves	7/19/2005	10/30/2007	\$20,000
Schultz, Stephen		IPITEK (DOD)		7/19/2005	10/31/2007	\$23,565
Schultz, Stephen	w/ Hawkins, Aaron	NSF	Acquisition of chlorine based reactive etcher	6/1/2007	5/30/2010	\$60,000
Selfridge, Richard	w/ Schultz, Stephen	NAVY	D-Fibre Sensors in Harsh Environments Optical fibre Transducer for High Power Microwaves	4/25/2006	1/16/2008	\$20,000
Selfridge, Richard	w/ Schultz, Stephen	IPITEK	Optical Fibre Transducer for High Power Microwaves	7/19/2005	10/30/2007	\$20,000
Selfridge, Richard	w/ Schultz, Stephen	IPITEK (DOD)		7/19/2005	10/31/2007	\$23,565
Stirling, Wynn		Dept of Army	Socially Coherent Negotiations for Cooperative Multiagent Systems Vision Assisted Navigation for Miniature Air Vehicles	10/1/017	3/31/2008	\$30,000
Taylor, Clark		AFOSR		2/1/2007	11/30/2007	\$99,603
Taylor, Clark		SelectTech (AFRL)	Enhanced Utilization of SUAV Video	4/1/2007	3/22/2008	\$49,809
Warnick, Karl	w/Brian Jeffs	NSF	FRI Mitigation for Radio Astronomy w/ Emphasis on Array Feeds	9/15/2004	8/31/2008	\$7,500
Wirthlin, Michael	w/ Nelson, Brent	NSF	Brigham Young University to Join the I/UCRC CHREC Center Auto Design Techniques for High-Performance & Reliable FPGA Design	2/15/2007	1/31/2008	\$5,000
Wirthlin, Michael		Los Alamos (DOE)		2/15/2007	1/28/2009	\$299,850
Wirthlin, Michael		DARPA / WPAFB	FPGA Design Methods and Tool Flows	9/1/2007	5/31/2008	\$116,155
Wirthlin, Michael		Sandia National Lab	Non-Volatile Memory Review and Analysis	9/1/2007	8/31/2008	\$100,000
Wirthlin, Mike		Sandia (DOE)	Non-Volatile Memory Review and Analysis Center for High-Performance Reconfigurable Computing	9/1/2007	12/31/2007	\$29,428
Wirthlin, Mike	w, Nelson, Brent	Sandia (DOE) Rincon Research Corp.		8/1/2007	7/31/2008	\$17,500
Wirthlin, Mike	w/Nelson, Brent w/ Hawkins, Aaron		Center for High Performance reconfigurable Computing	11/27/2007	11/26/2008	\$17,500
Woolley, Adam		NSF	Acquisition of chlorine based reactive etcher	6/1/2007	5/30/2010	\$60,000
<i>Mechanical Engineering</i>						
Adams, Brent		ARO	Microstructure Sensitive Design	7/26/2004	7/31/2007	\$90,300
Adams, Brent		AFOSR	Fundamental Role of Grain Boundaries	1/15/2005	12/31/2007	\$63,000
Archibald, Jim	w/ McLain, Tim	Utah COE	Unmanned Air Vehicle Center of Excellence	7/1/2004	6/30/2008	\$10,714
Beard, Randy	w/ McLain, Tim	Utah COE	Unmanned Air Vehicle Center of Excellence	7/1/2004	6/30/2008	\$10,714
Blotter, John	w/ Gee, Kent	STI Technologies	Energy Based Acoustic Measurement Sensors	8/1/2005	6/30/2008	\$16,666
Blotter, John		STI Technologies	Energy Based Acoustic Measurement Sensors	8/1/2005	6/30/2008	\$13,333
Blotter, Jonathan	w/ Maynes, Daniel	Genscape	Turbulence Flow Induced Vibrations in Pipe Systems	1/30/2007	1/29/2008	\$25,000
Blotter, Jonathan	w/ Maynes, Daniel	CCI Valve	Turbulence Flow Induced Vibrations in Pipe Systems	1/1/2007	12/31/2007	\$25,000
Blotter, Jonathan	w/Gee, Kent	Blue Ridge Research	Near-field Acoustical Holography System- Jet Noise Measurements	4/4/2007	3/1/2008	\$10,985
Bons, Jeffrey		NASA	Flow Control for Turbomachinery Blading	1/29/2007	7/28/2007	\$19,500
Bons, Jeffrey		AFOSR	Design and Modeling of Turbine Airfoils	3/1/2007	11/30/2007	\$54,270
Bons, Jeffrey		Clemson (DOE)	Deposition of Syngas Fuels on Turbine Blades	8/1/2005	1/31/2008	\$33,832
Bowman, Jerry	w/ McLain, Tim	Utah COE	Unmanned Air Vehicle Center of Excellence Autonomous Agents in Automated Product Development	7/1/2004	6/30/2008	\$10,714
Cox, Jordan		Pratt & Whitney		5/1/2007	4/30/2008	\$30,000
Goodrich, Mike	w/ McLain, Tim	Utah COE	Unmanned Air Vehicle Center of Excellence	7/1/2004	6/30/2008	\$10,714
Howell, Larry		MEMS (ARO)	Research on ARO ChemPen Project	7/6/2007	4/5/2008	\$20,000
Howell, Larry		MEMS (DARPA)	Research on DARPA NanoSwitch Program (MEM005)	7/6/2007	6/6/2008	\$25,000

Jensen, Brian	w/ Howell, Larry	MEMS (ARO)	Research on ARO ChemPen Project	7/6/2007	4/5/2008	\$20,000
Jensen, Brian	w/ Howell, Larry	MEMS (DARPA)	Research on DARPA NanoSwitch Program (MEM005)	7/6/2007	6/6/2008	\$25,000
Jensen, Greg		Pratt & Whitney	Task 34 - Automodeller Tools	1/18/2007	12/31/2008	\$12,000
Jensen, Greg		Pratt & Whitney	Task 35 - Discretization of Large Scale CFD Models	1/30/2007	12/31/2008	\$28,500
Jensen, Greg		Pratt & Whitney	Task 37 - Sync Ring Simulation Benchmarking	1/10/2007	12/31/2008	\$7,500
Jensen, Greg		Pratt & Whitney	Task #38 CI/CO Design Tools	3/5/2007	8/30/2007	\$44,200
Jensen, Greg		Pratt & Whitney	Task # 25; Hollow Fan Blade Development	2/25/2005	6/30/2007	\$31,730
Jensen, Greg		Pratt & Whitney	Task #40 IAS-PR Workforce Collaborative Dev	8/28/2007	12/31/2007	\$15,000
Jensen, Greg		Pratt & Whitney	Task #38 CI/CO Design Tools	6/15/2007	8/30/2007	\$2,652
Jensen, Greg		Pratt & Whitney	Task #39 Autonomous Agents in Automated Product Dev.	5/1/2007	4/30/2008	\$1,800
Jensen, Greg		ATK	Model Analysis of Fairing and Interstage Assemblies	9/1/2007	8/1/2008	\$60,000
Jensen, Greg		Altair Engineering	Converting Topology Results to Parametric CAD	12/18/2007	12/17/2008	\$40,600
Jensen, Greg	w/ Red, Ed	General Motors	TEBIS 3.4 vs NX 5.0 (Sept 2007)	8/27/2007	1/30/2008	\$18,478
Jones, Matt	w/Maynes, Dan	GE	Coal Gasification Technology	1/1/2006	12/31/2008	\$26,250
Maynes, Dan		Genscape	Turbulence Flow Induced Vibrations in Pipe Systems	1/30/2007	1/29/2008	\$25,000
Maynes, Dan		CCI Valve	Turbulence Flow Induced Vibrations in Pipe Systems	1/1/2007	12/31/2007	\$25,000
Maynes, Dan		GE	Coal Gasification Technology	1/1/2006	12/31/2008	\$26,250
McLain, Tim		INL	Deployment & Tracking for Micro Air Vehicles	1/11/2007	12/31/2007	\$37,992
McLain, Tim	w/ Randy Beard	SSCI (NASA)	Autonomous Surveillance of Forest Fires with UAV's	3/23/2005	5/22/2007	\$82,500
McLain, Tim	w/Goodrich, Michael	NSF	UAV Surveillance of Forest Fires Using Teams of UAV's	11/1/2005	10/31/2008	\$4,000
McLain, Tim	w/ Beard, Randy	Scientific Systems (NASA)	UAV's	5/23/2005	11/22/2007	\$12,500
McLain, Tim		Utah COE	Unmanned Air Vehicle Center of Excellence	7/1/2004	6/30/2008	\$10,715
McLain, Timothy	w/ Beard, Randal	Scientific Sys. (Air Force)	Collision Detection & Avoidance for Micro Air Vehicles	7/14/2006	4/14/2007	\$7,500
McLain, Timothy	w/ Beard, Randal	SSCI (Air Force)	Visual Collision Detection & Avoidance for Micro Air Vehicle	9/1/2007	9/9/2008	\$41,719
Nelson, Tracy		JFE Steele	Friction Stir Processing Industry Co-op Support to NSF	9/1/2004	12/31/2007	\$8,750
Nelson, Tracy		NSF	Friction Stir Processing	9/1/2004	8/31/2008	\$37,500
Nelson, Tracy		NSF	Friction Stir Processing	9/1/2004	8/31/2008	\$25,000
Nelson, Tracy		ONR	Studies in High Integrity Friction Stir Weldments	4/9/2007	5/31/2008	\$500,000
Nelson, Tracy		ONR	Friction Stir Welding Butt and T Joints in Thin Plates	11/14/2007	11/13/2009	\$68,000
Nelson, Tracy		Adv. Metal Prod. (ONR)	Portable Friction Stir Welding technology for Aluminum	7/9/2007	7/8/2008	\$10,462
Nelson, Tracy		Mitsubishi	Friction Stir Processing Coop (March 2007)	9/1/2004	8/31/2009	\$35,000
Nelson, Tracy		JFE Steel	Friction Stir Processing Coop (July 2007)	9/1/2004	8/31/2009	\$8,750
Nelson, Tracy		Hitachi Ltd.	Friction Stir Processing Coop (Feb 2007)	9/1/2004	8/31/2009	\$35,000
Nelson, Tracy		Swedish Nuc. Mgmt Co	Friction Stir Processing Consortium (Aug. 2007)	9/1/2006	9/30/2009	\$520
Red, Ed		General Motors	TEBIS 3.4 vs NX 5.0 (Sept 2007)	8/27/2007	1/30/2008	\$18,478
Snyder, Deryl	w/ McLain, Tim	Utah COE	Unmanned Air Vehicle Center of Excellence	7/1/2004	6/30/2008	\$10,715
Snyder, Deryl O.	w/ Bons, Jeffrey	AFOSR	Design and Modeling of Turbine Airfoils	3/1/2007	11/30/2007	\$54,270
Sorenson, Carl	w/ Nelson, Tracy	Adv. Metal Prod. (ONR)	Portable Friction Stir Welding technology for Aluminum	7/9/2007	7/8/2008	\$10,461
Sorenson, Carl	w/ Nelson, Tracy	NSF	Friction Stir Processing	9/1/2004	8/31/2008	\$37,500
Sorenson, Carl	w/ Nelson, Tracy	NSF	Friction Stir Processing	9/1/2004	8/31/2008	\$25,000
Sorenson, Carl	w/Nelson, Tracy	ONR	Studies in High Integrity Friction Stir Weldments	4/9/2007	5/31/2008	\$500,000
Taylor, Clark	w/ McLain, Tim	Utah COE	Unmanned Air Vehicle Center of Excellence	7/1/2004	6/30/2008	\$10,714
Thomson, Scott		NIH	Influence of Surface Adhesive Forces on Vocal Fold Stress	2/9/2007	1/31/2008	\$75,000
Todd, Robert		Polaris	Improving the wear resistance of cut sheaves	3/15/2006	12/31/2006	\$1,039
Tree, Dale		DOE	An Investigation of Nitrogen Evolution & Corrosion w/ OxyCombustion	9/1/2005	8/31/2008	\$66,000

Tree, Dale	w/ Baxter, Larry	GE	Coal Gasification Technology	1/1/2006	12/31/2008	\$74,500
Tree, Dale	w/Maynes, Dan	GE	Coal Gasification Technology	1/1/2006	12/31/2008	\$26,250
Webb, Brent		NSF	Emerging Scientist Travel Support; 5th Intrntl. Symposium	6/1/2007	5/31/2008	\$10,000
<i>School of Technology</i>						
Strong, Brent		Kern Family Foundation	Kern Family Foundation Proposal Preparation	6/14/2007	8/15/2007	\$5,000

Type: 1=Federal; 2=Federal Subcontract; 3=State; 4=Private

Department Totals	
Chemical Engineering	\$2,684,976
Civil & Environmental Engineering	\$1,615,919
Electrical & Computer Engineering	\$4,440,868
Mechanical Engineering	\$2,725,537
School of Technology	\$5,000
College Total:	\$11,472,300

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Source Breakdown of Grants and Contracts

Sponsor	No. Awarded	Amount
Federal Sponsors		
AFOSR	3	\$271,143
Army WES	6	\$834,048
ARO	1	\$90,300
Bureau of Reclamation	1	\$22,000
DARPA / WPAFB	1	\$348,465
Dept of Army	1	\$30,000
DOE	2	\$306,000
Edwards AFB	1	\$192,151
INL	2	\$152,027
JFE Steele	1	\$8,750
NASA	3	\$389,500
NAVY	1	\$243,400
NESDIS/NOAA	1	\$66,500
NIH	2	\$125,000
NSF	17	\$2,363,459
ONR	2	\$1,068,000
ONRRO Seattle	0	\$0
Sandia National Lab	1	\$100,000
Uof CO Boulder (NASA)	1	-\$36,171
US Army	0	\$0
USDA Forest Service	1	\$20,000
USGS	1	\$10,000
<i>Total</i>	49	\$6,604,572
Federal Subcontracts Sponsors		
Adv. Metal Prod. (ONR)	1	\$20,923
Auburn (DOE)	1	\$32,640
Blue Ridge Research	0	\$10,985
Clemson (DOE)	1	\$67,664
DOE (SCIES)	1	\$67,664
EMS-I (FHWA)	1	\$50,000
INL	1	\$59,273
INL (DOE)	1	\$25,000
IPITEK	1	\$40,000
IPITEK (DOD)	1	\$47,130
John Hopkins (NIH)	1	\$38,750
JPL (NASA)	2	\$190,442
Los Alamos (DOE)	1	\$299,850
MEMS (ARO)	1	\$40,000
MEMS (DARPA)	1	\$50,000
Natl Security Tech (DOE)	1	\$15,000
OSU (DOT)	1	\$22,452

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Source Breakdown of Grants and Contracts

OSU (USDA)	1	\$35,000
Sandia (DOE)	2	\$64,428
Scientific Sys. (Air Force)	1	\$15,000
Scientific Systems (NASA)	1	\$25,000
SEA (AFOSR)	1	\$30,227
SEA (ONR)	1	\$50,000
SelectTech (AFRL)	1	\$49,809
SET Corp. (AFRL)	1	\$33,333
Software & Eng. Assoc. (ONR)	1	\$50,000
SSCI (Air Force)	1	\$83,439
SSCI (NASA)	1	\$165,000
STI Technologies		\$29,999
U of CA, Santa Cruz(NIH)	1	\$22,531
U of Santa Cruz (AFOSR)	1	\$86,600
U of Santa Cruz (NIH)	1	\$105,408
U of U (NASA)	1	\$18,000
UAF (USDOT)	1	\$9,337
UCDavis (Army)	1	\$305,000
UCSD (ARO)	1	\$134,228
UCU (LBL)	1	\$151,490
Uof U (NASA)	1	\$32,000
USU (DOD)	1	\$7,478
USU (NSF)	1	\$103,157
USU/SDL (NASA)	1	\$41,000
<i>Total</i>	41	\$2,725,237
State Sponsors		
CUWCD	1	\$7,025
Nye County, NV	0	\$19,427
OSU (Coskata, Inc.)	1	\$276,036
State of UT (UDOT)	1	\$40,000
UDOT	8	\$243,940
Utah COE	1	\$75,000
<i>Total</i>	12	\$661,428
Private Sponsors		
ACTR	1	\$43,301
AIChE	2	\$625,000
Altair Engineering	1	\$40,600
American Inst. of Steel Const	1	\$15,000
ATK	1	\$60,000
ATK Launch Systems	2	\$33,916
ATK/Thiokol	1	\$50,000
CCI Valve	1	\$50,000
Ceramatec	1	\$30,000

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Source Breakdown of Grants and Contracts

CFDRC	1	\$23,989
Fischer Tropsch (Int. Composting Corp)	1	\$30,000
GE	2	\$254,000
General Motors	1	\$36,956
Genscape	1	\$50,000
Hitachi Ltd.	1	\$35,000
Innolume, Inc.	1	\$43,111
JFE Steel	1	\$8,750
Kern Family Foundation	1	\$5,000
Kryogen, USA, LLC	1	\$30,000
Metso Power	1	\$2,798
Metso Power Oy	1	\$62,000
Mitsubishi	1	\$35,000
Polaris	1	\$1,039
Pratt & Whitney	9	\$173,382
Procerus	1	\$3,600
Rincon Research Corp.	1	\$35,000
Siemens Inc.	1	\$50,250
SW Management	1	\$39,023
Swedish Nuc. Mgmt Co	1	\$520
U of Ut(Chevron)	1	\$66,622
UDOT	2	\$62,479
<i>Total</i>	43	\$1,996,336