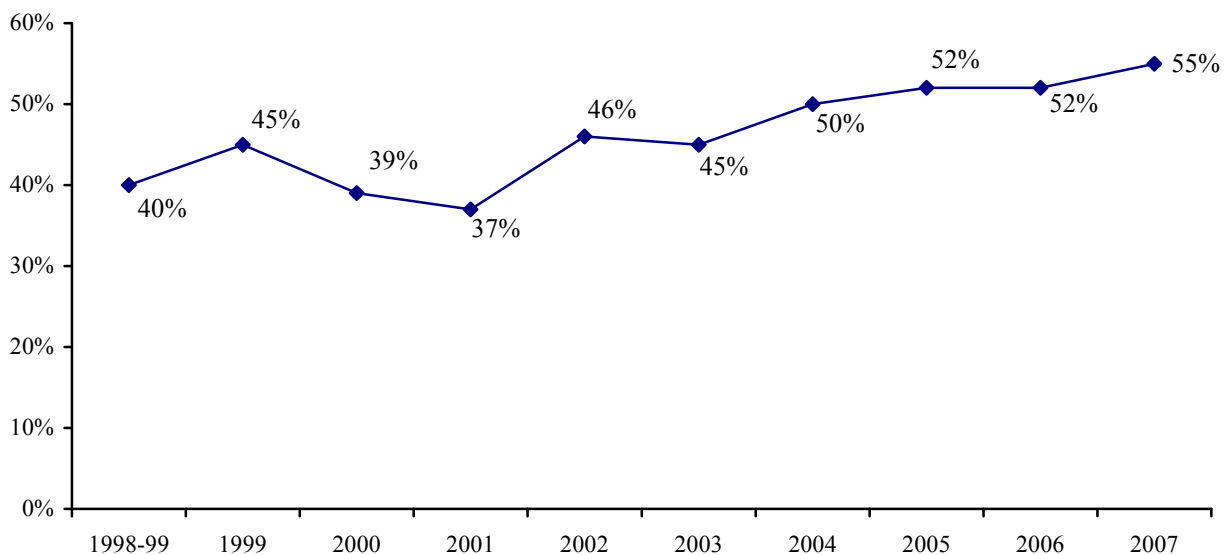


College of Physical & Mathematical Sciences

Summary of Sponsored Research (Grants & Contracts)

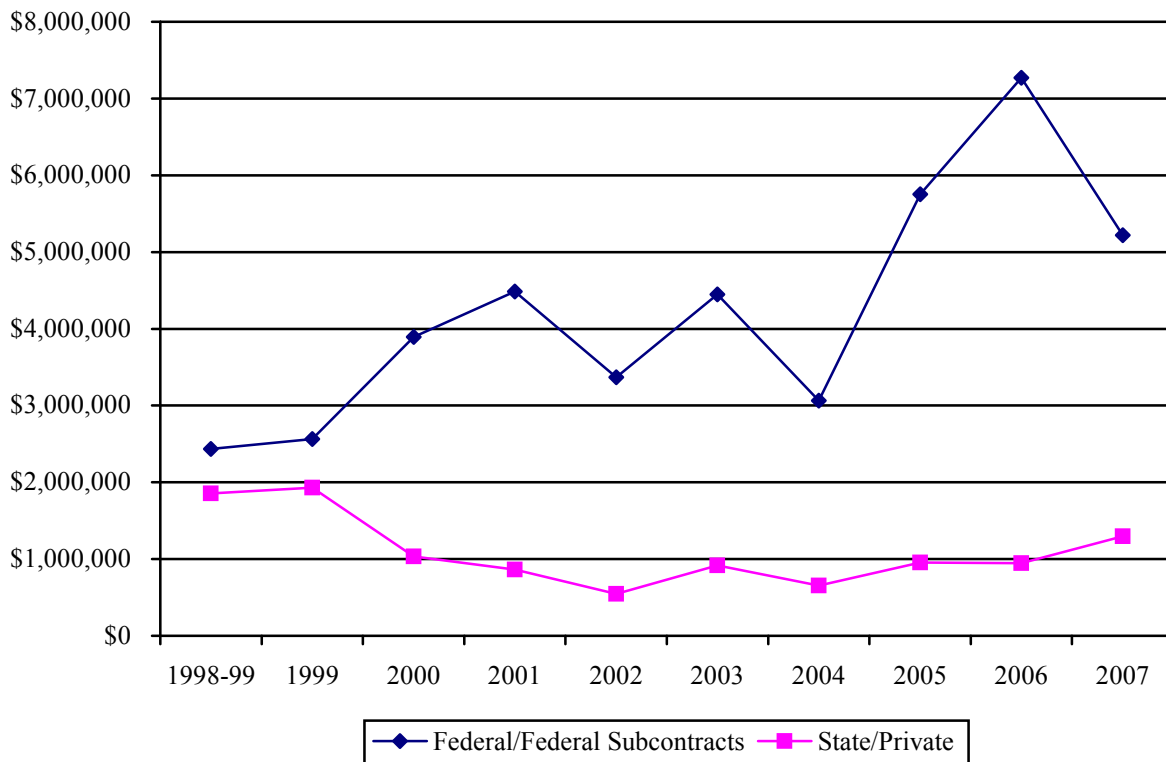
Department	# of Faculty	# of Faculty Submitting	# of Proposals Submitted	# of Awards	Dollars Awarded
Chemistry & Biochemistry	31	23	57	46	\$4,511,810
Computer Science	24	9	14	10	\$512,954
Geology	14	17	18	10	\$315,845
Mathematics	30	13	18	5	\$265,025
Mathematics Education	12	1	1	0	\$0
Physics & Astronomy	31	20	36	21	\$907,085
Statistics	14	3	1	0	\$0
TOTALS	156	86	145	92	\$6,512,719

Proposal Submission Activity



External Research Funding (All Sources)

Year	Grants/Contracts		Total
	Federal/Federal Subcontracts	State/Private	
1998-99	\$2,436,351	\$1,853,248	\$4,316,599
1999	\$2,561,770	\$1,928,464	\$4,490,234
2000	\$3,892,327	\$1,032,159	\$4,924,486
2001	\$4,485,814	\$865,015	\$5,350,829
2002	\$3,368,967	\$547,133	\$3,916,100
2003	\$4,447,192	\$915,462	\$5,362,654
2004	\$3,065,799	\$653,585	\$3,719,384
2005	\$5,752,653	\$956,651	\$6,709,304
2006	\$7,272,491	\$945,392	\$8,217,883
2007	\$5,218,139	\$1,294,580	\$6,512,719



Physical & Mathematical Sciences 2007 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>
<i>Chemistry & Biochemistry</i>							
Andrus, Merritt		Research Corporation	Phase-Transfer Catalyzed Acyl-Imidazole Reactions	4/1/2007	3/31/2009	4	\$50,000
Austin, Daniel		Society of Analytical Chemists	High-Velocity impact dissociation and ionization of whole viruses	6/8/2007	12/31/2007	4	\$20,000
Austin, Daniel		NASA	Characterization of Planetary Atmospheres & Gases	6/4/2007	6/30/2010	1	\$558,336
Boerio-Goates, Julie	W/ Woodfield, Brian	Headwaters, Inc.	Production of Fe304 Nanoparticles	7/30/2007	8/31/2008	4	\$21,000
Boerio-Goates, Julie	w/Woodfield, Brian	Cosmas (NSF)	Synthesis of Metal, Mixed Metal Oxide Nanoparticles	1/1/2008	12/31/2008	2	\$24,534
Burton, Greg		John Hopkins (NIH)	Tissue and Cell Reservoirs for HIV	7/15/2003	12/31/2007	2	\$68,958
Buskirk, Allen		NIH	Genetic Studies on Bacterial Trans-translation	5/1/2006	4/30/2008	1	\$218,457
Castle, Steven L.		NIH	New Methods for the Synthesis of Unusual Peptides	4/1/2004	3/31/2008	1	\$213,341
Castle, Steven L.		NSF	New Stereo Selective Radical Cyclizations	8/15/2007	7/31/2009	1	\$234,979
Crandall, Keith	w/ Burton, Greg	John Hopkins (NIH)	Tissue and Cell Reservoirs for HIV	7/15/2003	12/31/2007	2	\$68,958
Dearden, David		NSF	Supramolecular Characterization via Spectrometry	8/1/2006	7/31/2008	1	\$100,000
Farnsworth, Paul		DOE	Ion Production Atmospheric Pressure Source	11/1/2007	10/31/2008	1	\$65,000
Fleming, Steven A.	w/ Paul Savage	NSF	Mass	9/1/2007	8/31/2010	1	\$223,099
Graves, Steven		Glenveigh Research LLC	Bio-Organic Reactions Animations	9/1/2007	8/31/2010	1	\$223,099
Izatt, Reed		US Army	Digibind for the Treatment of Severe Preeclampsia	11/1/2003	8/31/2008	4	\$35,000
Izatt, Reed		ONRRO Seattle	Modeling and Thermodynamic Study	8/1/2006	12-31-07	1	\$60,000
Izatt, Reed		ONRRO Seattle	Modeling and Thermodynamic Study	8/1/2006	12/31/2008	1	\$60,000
Lamb, John		Dionex Corp	Macrocycle Based Ion Chromatography	10/10/2006	6/30/2007	4	\$30,000
Lee, Milt		UofU (Dugway)	Near Real Time Low Vapor Concentration Agent	5/1/2007	12/31/2007	2	\$33,125
Lee, Milt		Berkeley Heart Lab	Differential Mobility Analysis of Lipoprotein Particles	6/1/2007	8/31/2007	4	\$37,397
Lee, Milt		Berkeley Heart Lab	Differential Mobility Analysis of Lipoprotein Particles	9/1/2007	12/31/2008	4	\$149,587
Lee, Milton	w/Linford, Matt	US Synthetic	New Diamond Materials for Chromatography	1/1/2007	12/31/2007	4	\$13,563
Lee, Milton		Torion (Palmar)	High Throughput Chemical Analyzer	3/1/2004	12/31/2007	4	\$75,000
Lee, Milton		Torion Technologies	Portable GC-MS System Development	5/1/2006	4/30/2008	2	\$39,000
Lee, Milton		Torion Technologies	Chemical & Biological Agent Detector	5/8/2003	12/31/2007	2	\$9,375
Lee, Milton	w/Linford, Matt	US Synthetics	New Diamond Materials for Chromatography	1/1/2008	12/31/2008	4	\$46,500
Linford, Matt		US Synthetic	New Diamond Materials for Chromatography	1/1/2007	12/31/2007	4	\$13,563
Linford, Matt		US Synthetic	Research Collaboration with US Synthetics	9/3/2003	8/31/2007	4	\$16,663
Linford, Matt		Sonic Innovations Inc	Research Collaboration with Sonic Innovations	8/14/2006	8/31/2007	4	\$5,625
Linford, Matt	w/Harb, John	NSF	Chemically Directed Surface Alignment/Wiring-Nanoelectrical Circuits	7/1/2007	6/30/2011	1	\$200,000
Linford, Matt		US Synthetic	Development of Faster Cobalt Leaching of Diamond	11/1/2007	4/30/2008	4	\$8,500
Linford, Matt		U of A (NIH)	Rental/Lease of Gilson GX-271 ASPEC	7/1/2007	12/31/2007	2	\$19,899
Linford, Matt		US Synthetics	New Diamond Materials for Chromatography	1/1/2008	12/31/2008	4	\$46,500
Linford, Matthew		US Synthetic	Research Collaboration with US Synthetics	12/15/2005	12/31/2006	4	\$4,168
Linford, Matthew		Yield Engineering Systems	Characterization of Silane Modified Surfaces	4/1/2007	4/20/2008	4	\$44,000
Linford, Matthew		BioMicro Systems	BioMicro Slide Surface Modification	10/19/2007	4/19/2008	4	\$4,000
Savage, Paul		Univ of Chicago (NIH)	Glycolipid Presentation by Cdid (TH1/TH2 Glycolipid Adjuvants)	1/15/2003	12/31/2007	2	\$190,984
Savage, Paul		Univ of Chicago (NIH)	Glycolipid Presentation by Cdid (TH1/TH2 Glycolipid Adjuvants)	1/15/2003	12/31/2006	2	\$2,441
Savage, Paul		Tech Transfer	Royalty Funding (July 2007)	5/12/2004	12/31/2010	4	\$60,750

Savage, Paul B.		Scripps (NIH)	Using Lipids for Vaccination	8/1/2007	7/31/2008	2	\$89,430
Savage, Paul B.		NSF	Bio-Organic Reactions Animations	9/1/2007	8/31/2010	1	\$223,100
Savage, Paul B.		University of Chicago (NIH)	Glycolipid Presentation by CD1d (TH1/TH2 Glycolipid Adjuvants)	1/1/2007	12/31/2007	2	\$40,583
Willardson, Barry		NIH	Physiological Role of Phosducins in the Retina	5/3/1999	4/30/2008	1	\$218,483
Willardson, Barry M.		NIH	Co-Chaperone Role of Phosducin-like Protein in G Protein	9/17/2007	6/30/2008	1	\$283,024
Woodfield, Brian		Ceramatec	Sulfur-Tolerant Anode for Solid Oxide Fuel Cell	3/1/2007	2/28/2009	2	\$19,500
Woodfield, Brian		NIST	NIST Summer Research Program (Gaithersburg)	4/1/2007	9/14/2007	1	\$6,934
Woodfield, Brian		Dept of Energy	Energetics of Nanomaterials	6/1/2005	5/14/2008	1	\$165,000
Woodfield, Brian		Headwaters, Inc.	Production of Fe304 Nanoparticles	7/30/2007	8/31/2008	4	\$21,000
Woodfield, Brian		Cosmas (NSF)	Synthesis of Metal, Mixed Metal Oxide Nanoparticles	1/1/2008	12/31/2008	2	\$24,534
Woodfield, Brian F.		Ceramatec, Inc.	Portable, Moderate-temperature Solid-oxide Fuel Cells	7/26/2007	1/26/2008	2	\$30,750
Woodfield, Brian F.		Ceramatec (Air Force)	Alumina IR Windows w/ Nanoscale Sintered Windows	10/15/2007	7/15/2008	2	\$30,000
Woolley, Adam		NIH	Phase-Changing Sacrificial Layer Microfluidics	4/1/2006	1/31/2008	1	\$216,000
Woolley, Adam		Dreyfus Foundation	Microchip Separations in Undergraduate Chemistry Labs	2/7/2007	2/28/2009	4	\$40,000
Woolley, Adam		NIH	Phase-Changing Sacrificial Layer Microfluidics	4/1/2006	1/31/2008	1	\$46,170
Woolley, Adam	w/Harb, John	NSF	Chemically Directed Surface Alignment/Wiring-Nanoelectrical Circuits	7/1/2007	6/30/2011	1	\$200,000
Woolley, Earl	w/Dallon, John	NSF	Mathematic Differentiation of Regenerative From Scarring Repair	1/15/2007	12/31/2007	1	\$33,327
<i>Computer Science</i>							
Barrett, William		Adobe Systems	Computer Systems Vectorization	4/1/1997	12/31/2007	4	\$37,500
Embley, David		NSF	REU: TANGO	8/31/2007	7/31/2008	1	\$6,000
Goodrich, Michael		MA&D (Alion)	Frameworks for Adjustable Autonomy	3/1/2007	4/10/2008	4	\$40,743
Goodrich, Michael		NSF	UAV	11/1/2005	10/31/2008	1	\$4,000
Goodrich, Michael		Alion	Frameworks for Adjustable Autonomy	4/11/2007	4/10/2008	2	\$43,868
Martinez, Tony		NSF	NSF Graduate Research Fellowship (Kristine Perry)	9/15/2007	8/31/2012	1	\$40,500
Morse, Bryan	w/ Goodrich, Michael	NSF	UAV	11/1/2005	10/31/2008	1	\$4,000
Morse, Bryan		Adobe	Video Segmentation	9/15/2007	9/15/2008	4	\$39,000
Seamons, Kent		NSF	ITR	7/26/2007	8/31/2008	1	\$180,250
Seamons, Kent		UC Irvine (NSF)	Flexible Access Control Systems for Urban Crisis Response	10/1/2003	9/30/2008	2	\$82,093
Ventura, Dan		NSF	Creative Intelligent Systems Symposium	9/15/2007	5/31/2008	1	\$25,000
<i>Geology</i>							
Britt, Brooks		UT Arts & Museum	Ambient Air Filter Systems	8/20/2007	8/20/2008	3	\$8,357
Keach, Bill		Univ of Utah	Continental Sediment Scale Dispersal....	7/1/2007	8/31/2007	4	\$16,975
Kowallis, Bart		USGS	Geologic Mapping: Jessen Butte 7 1/2 min. Quad, Dagget Co, Ut	7/1/2007	6/30/2008	1	\$14,230
Mayo, Alan	w/McBride, John	Nye County, NV	Geophysical & Geological Investigation of Sub-surface Hydrogeology	7/1/2007	6/15/2008	3	\$19,428
McBride, John		Univ of IL at UC (DOE)	CO2 Sequestration in the Illinois Basin	10/1/2005	9/30/2007	2	\$60,234
McBride, John		Nye County, NV	Geophysical & Geological Investigation of Sub-surface Hydrogeology	7/1/2007	6/15/2008	3	\$19,428
McBride, John		IGES Ingenieros	Acquisition & Processing of Ground Penetrating Radar in Midway, UT.	5/31/2007	9/15/2007	4	\$618
McBride, John		IGES Ingenieros	Acquisition and Processing of Seismic Data (Aug 2007)	1/8/2007	12/31/2008	4	\$86,347
Morris, Tom		Utah Geological Survey	Sequence Stratigraphy: A Cooperative Course	9/1/2007	10/31/2007	3	\$4,500
Nelson, Steve	w/McBride, John	Nye County, NV	Geophysical & Geological Investigation of Sub-surface Hydrogeology	7/1/2007	6/15/2008	3	\$19,427
Ritter, Scott		UT Geological Survey	Depositional & Petrophysical Characterization of Limestone	9/3/2007	6/30/2008	3	\$13,091

Scheetz, Rodney		State of Utah	Construction of Collection Storage Cabinets	6/15/2006	6/30/2007	3	\$6,000
Scheetz, Rodney	w/Britt, Brooks	UT Arts & Museum	Ambient Air Filter Systems	8/20/2007	8/20/2008	3	\$8,356
Tingey, David	w/McBride, John	Nye County, NV	Geophysical & Geological Investigation of Sub-surface Hydrogeology	7/1/2007	6/15/2008	3	\$19,427
<i>Mathematics</i>							
Bakker, Lennard	w/Fisher, Todd	NSF	Rocky Mountain Dynamical Systems Conference	5/1/2008	4/30/2009	1	\$4,725
Dallon, John		NSF	Mathematic Differentiation of Regenerative From Scarring Repair	1/15/2007	12/31/2007	1	\$33,328
Dorff, Michael		NSF	Complex Analysis Projects....	6/1/2007	5/31/2008	1	\$36,444
Ehrlich, Paul	w/Dallon, John	NSF	Mathematic Differentiation of Regenerative From Scarring Repair	1/15/2007	12/31/2007	1	\$33,327
Fisher, Todd		NSF	Rocky Mountain Dynamical Systems Conference	5/1/2008	4/30/2009	1	\$4,725
Li, Xian-Jin		DOD (NSA)	Selberg trace formula & the Beurling-Selberg functions	1/27/2006	1/26/2008	1	\$15,851
Lu, Kening	w/Fisher, Todd	NSF	Rocky Mountain Dynamical Systems Conference	5/1/2008	4/30/2009	1	\$4,725
Purcell, Jessica Rudolph, Daniel	w/Fisher, Todd	NSF	Geometry and Topology of Knots nad Links.	8/1/2007	7/31/2010	1	\$93,848
		NSF	Rocky Mountain Dynamical Systems Conference	5/1/2008	4/30/2009	1	\$4,725
<i>Physics & Astronomy</i>							
Albrechtsen, Jacob	w/Stephens, Denise	Space Telescope Sci Inst (NASA)	Searching for Unresolved Binary Brown Dwarfs....	8/1/2007	7/31/2009	2	\$13,000
Allred, David		WAESO	WAESO Support	6/15/2007	6/14/2008	2	\$756
Allred, David		ASU (NSF)	WAESO	8/28/2007	8/27/2008	2	\$756
Colton, John		NSF	T2 Measurement in GaAs....	9/1/2007	7/31/2008	1	\$58,936
Davis, Robert		Cornell Univ (NSF)	Center for Nanoscale Systems in Information Technology	10/1/2006	9/30/2007	2	\$30,000
Davis, Robert	w/Harb, John	NSF	Chemically Directed Surface Alignment/Wiring-Nanoelectrical Circuits	7/1/2007	6/30/2011	1	\$200,000
Davis, Robert		Cornell (NSF)	Center for Nanoscale Systems in Information Technology.	10/1/2006	9/30/2008	2	\$30,000
Gee, Kent		STI Technologies	Energy Based Acquostic Measurement Sensors	8/1/2005	6/30/2008	2	\$16,667
Gee, Kent		STI Technologies	Energy Based Acquostic Measurement Sensors	8/1/2005	6/30/2008	2	\$13,334
Gee, Kent		Blue Ridge Research	Near-field Acoustical Holography System- Jet Noise Measurements	4/4/2007	3/1/2008	2	\$10,985
Gee, Kent	w/Sommerfeldt, Scott	TechnoFirst America	Development of Active Noise Control Concepts	9/5/2007	12/4/2007	4	\$75,000
Gee, Kent		HHI Corporation	Blast and Noise Measurements and Analysis	10/8/2007	11/30/2007	4	\$4,500
Hart, Gus		NSF	Materials World Network	8/1/2006	7/31/2008	1	\$78,000
Hirschmann, Eric		NSF	Simulating Neutron Star-Black Hole Inspiral	9/1/2007	8/31/2008	1	\$40,000
Neilsen, David	w/Hirschmann, Eric	NSF	Simulating Neutron Star-Black Hole Inspiral Laser High Harmonics REU addition (August 2007)	9/1/2007	8/31/2008	1	\$40,000
Peatross, Justin		NSF		7/1/2005	6/30/2008	1	\$5,000
Somerfeldt, Scott		STI Technologies	Energy Based Acquostic Measurement Sensors	8/1/2005	6/30/2008	2	\$16,667
Somerfeldt, Scott	w/ Gee, Kent	STI Technologies	Energy Based Acquostic Measurement Sensors	8/1/2005	6/30/2008	2	\$13,333
Somerfeldt, Scott		Caterpillar	Active Noise Control in Earth Moving Equipment	1/1/2006	7/31/2007	4	\$26,640
Sommerfeldt, Scott	w/Gee, Kent	Blue Ridge Research	Near-field Acoustical Holography System- Jet Noise Measurements	4/4/2007	3/1/2008	2	\$10,985
Sommerfeldt, Scott		TechnoFirst America	Development of Active Noise Control Concepts	9/5/2007	12/4/2007	4	\$75,000
Spencer, Ross	w/Farnsworth, Paul	DOE	Ion Production Atmospheric Pressure Source Mass	11/1/2007	10/31/2008	1	\$65,000
Stephens, Denise		STSI-GMS	Orbits, Maasses, and Densities of Transneptunian Binaries.	2/1/2007	1/31/2008	2	\$9,387
Stephens, Denise		Spitzer Science Center	Atmospheric Variability in Brown Dwarfs with IRAC	3/20/2007	6/30/2008	2	\$30,400
Stephens, Denise		Space Telescope Sci Inst (NASA)	Searching for Unresolved Binary Brown Dwarfs....	8/1/2007	7/31/2009	2	\$13,000
Turley, Stephen		NSF	REU: Physics Research	5/1/2006	4/30/2008	1	\$78,000
Vanfleet, Richard		MOXTEK	Very High Aspect Ratio Structures	11/13/2006	4/30/2008	4	\$12,000

Bergeson, Scott	NSF	Non-equilibrium Dynamics of Ultracold Neutral Plasmas	6/1/2007	5/31/2008	1	\$113,755
Durfee, Dallin	NIST	Testing Coulomb's Law with Cold-ion Matterwave Interferometry	10/1/2007	9/30/2010	1	\$50,000

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

Department Totals	
Chemistry & Biochemistry	\$4,760,137
Computer Science	\$502,954
Geology	\$296,418
Mathematics	\$231,698
Mathematics Education	\$0
Physics & Astronomy	\$1,131,101
Statistics	\$0
College Total:	\$6,922,308

Physical & Mathematical Sciences

Source Breakdown of Grants and Contracts

Sponsor	No. Awarded	Total Amount
Federal		
Dept of Energy	1	\$165,000
DOD (NSA)	1	\$15,851
DOE	1	\$130,000
NASA	1	\$558,336
NIH	6	\$1,195,475
NIST	2	\$56,934
NSF	18	\$1,713,793
ONRRO Seattle	1	\$120,000
US Army	1	\$120,000
USGS	1	\$14,230
<i>Total</i>	33	\$4,089,619

Subcontract		
Alion	1	\$43,868
ASU (NSF)	1	\$756
Blue Ridge Research	1	\$32,955
Ceramatec	1	\$19,500
Ceramatec (Air Force)	1	\$30,000
Ceramatec, Inc.	1	\$30,750
Cornell (NSF)	2	\$60,000
Cosmas (NSF)	1	\$49,068
John Hopkins (NIH)	1	\$137,916
Scripps (NIH)	1	\$89,430
Space Telescope Sci Ins (NASA)	1	\$26,000
Spitzer Science Center	1	\$30,400
STI Technologies	2	\$90,000
STSI-GMS	1	\$9,387
Torion Technologies	2	\$48,375
U of A (NIH)	1	\$19,899
UC Irvine (NSF)	1	\$82,093
Univ of Chicago (NIH)	2	\$193,425
Univ of IL at UC (DOE)	1	\$60,234
University of Chicago (NIH)	1	\$40,583
UofU (Dugway)	1	\$33,125
WAESO	1	\$756
<i>Total</i>	26	\$1,128,520

Physical & Mathematical Sciences

Source Breakdown of Grants and Contracts

State

Nye County, NV	1	\$97,137
State of Utah	1	\$6,000
UT Arts & Museum	1	\$16,713
UT Geological Survey	2	\$17,591
<i>Total</i>	5	\$137,441

Private

Adobe	1	\$39,000
Adobe Systems	1	\$37,500
Berkeley Heart Lab	2	\$186,984
BioMicro Systems	1	\$4,000
Caterpillar	1	\$26,640
Dionex Corp	1	\$30,000
Dreyfus Foundation	1	\$40,000
Glenveigh Research LLC	1	\$35,000
Headwaters, Inc.	1	\$42,000
HHI Corporation	1	\$4,500
IGES Ingenieros	2	\$86,965
MA&D (Alion)	1	\$40,743
MOXTEK	1	\$12,000
Research Corporation	1	\$50,000
Society of Analytical Chemists	1	\$20,000
Sonic Innovations Inc	1	\$5,625
Tech Transfer	1	\$60,750
TechnoFirst America	1	\$150,000
Torion (Palmar)	1	\$75,000
Univ of Utah	1	\$16,975
US Synthetic	5	\$149,457
Yield Engineering Systems	1	\$44,000
<i>Total</i>	28	\$1,157,139