

Proposals submitted during the period 12/1/2011 to 12/31/2011

Investigators(s)	Proposal Title	Sponsor	Proposal \$
Research: Aerospace and Mechanical Engineering			
Schmid, Steven R(PI)	Friction and heat transfer in hot stamping of steel	Corporation	\$96,416
Cameron, Joshua D(PI) Morris, Scott C(CO-PI)	VCAT Multi-stage Compressor Program	Corporation	\$6,035,000
Corke, Thomas C(PI) Mattis, Eric H(CO-PI)	Plasma Adaptive Optics for High Bandwidth Optical Path Difference Cont	DARPA	\$396,190
Wagner, Diane R(PI)	Collagen Crosslinking for the Prevention of Post-traumatic Osteoarthritis	Department of Defense	\$504,804
Do, Hyungrok(PI)	An Experimental Investigation of Flame Dynamics in a Scramjet Flow Pat	Department of Navy	\$493,660
Rennie, Robert M(PI) Jumper, Eric J(CO-PI) Wang, Meng(CO-PI)	HELICOPTER AERO-OPTICS RESEARCH WITH AERODYNAMIC BUFFETI	Department of Navy	\$524,197
Go, David B(PI)	High-Pressure, Micron-Scale, Pre-Breakdown Discharges for Non-Thermal,	Department of the Air Force	\$171,506
Do, Hyungrok(PI)	EXPERIMENTAL INVESTIGATION OF TURBULENT FLAMES IN HYPERSO	Department of the Air Force	\$468,860
Schmiedeler, James P(PI) Crowell, Charles R(CO-PI) Stanisic, Michael M(CO-PI)	HCC: Small: Development of a Humanoid Shoulder Complex for Improved Hu	National Science Foundation	\$499,998
		Department Total	\$9,190,631

Research: Anthropology

Benn Torres, Jada P(PI)	Assessing Genetic Ancestry as a Risk Factor to Uterine Fibroids	American Association of University	\$30,000
Kuijt, Ian(PI)	Inventing Villages, Making Homes: Neolithic Communities and Emerging S	American Council Learned Society	\$65,000
Rotman, Deborah L(PI)	Ethnogenesis of Irish-American Identity in the Midwestern United State	National Endowment for the Human	\$272,168
		Department Total	\$367,168

Research: Applied and Computational Mathematics and Statistics

Zhang, Yongtao(PI)	Advances in High Order Fast Sweeping Methods and Krylov Implicit Integ	National Science Foundation	\$259,100
Sommese, Andrew J(PI) Hu, Bei(CO-PI)	Free boundary problems and numerical algebraic geometry algorithms for	National Science Foundation	\$362,457
		Department Total	\$621,557

Research: Biological Sciences

Suckow, Mark A(PI)	Modeling Angiogenesis	Corporation	\$2,805
Severson, David W(PI)	Investigation of the genetic basis for host-seeking behavior in Culex	National Institutes of Health	\$158,766
		Department Total	\$161,571

Research: Chemical and Biomolecular Engineering

Bohn, Paul W(PI)	SafePort Optical Sciences Team	Department of Army	\$69,999
		Department Total	\$69,999

Research: Chemistry and Biochemistry

Proposals submitted during the period 12/1/2011 to 12/31/2011

Investigators(s)	Proposal Title	Sponsor	Proposal \$
Research: Chemistry and Biochemistry			
Kuno, Masaru K(PI)	Innovations in Nanowire Manufacturing: Large Scale Synthesis of Inorga	Corporation	\$41,678
Dovich, Norman J(PI)	Capillary Isoelectric Focusing/Mass Spectrometry for Quantitative Anal	Corporation	\$250,000
Tao, Franklin(PI)	Exploration of surface and catalysis of oxide-based catalysts through	Department of Energy	\$448,479
Sevov, Slavi C(PI) Hartland, Gregory V(CO-PI)	Nanomaterials from Negatively-Charged Main-Group Metals and Semimetals	Department of Energy	\$685,755
Scheidt, W. Robert(PI)	X-Ray and Chemical Studies of Metalloporphyrins	National Institutes of Health	\$1,200,000
Kuno, Masaru K(PI) Kamat, Prashant V(CO-PI)	US Egypt Cooperative Research: Plasmonic-semiconductor nanostructures	National Science Foundation	\$97,344
		Department Total	\$2,723,256
Research: Civil Engineering and Geological Sciences			
Albrecht-Schmitt, Th(PI)	Separations of Trivalent Lanthanide and Actinide Borates by Densities	Department of Energy	\$77,431
Bolster, Diogo(PI)	Collaborative Research:Quantifying Physical Parameters Controlling Non	National Science Foundation	\$167,706
		Department Total	\$245,137
Research: Classics, The			
Hernandez, David R(PI)	Butrint Archaeological Research Project: The Roman Forum	National Endowment for the Humar	\$178,592
		Department Total	\$178,592
Research: Computer Science & Engineering			
Hu, Xiaobo(PI)	SHF: Small: Collaborative Research: Reliability-Aware Design of Multi-	National Science Foundation	\$166,384
Poellabauer, Christi(PI)	CSR: Small: Programmable Context Monitoring in Smartphone-based Pervas	National Science Foundation	\$399,251
Poellabauer, Christi(PI)	NeTS: Small: Broadcast Reliability of Safety-Critical Information in V	National Science Foundation	\$493,964
Chawla, Nitesh V(PI)	III:Small: Network Evolution: From node to links to subgraphs	National Science Foundation	\$494,771
Thain, Douglas L(PI)	Right-Sizing Elastic Applications for Clusters, Clouds, and Grids	National Science Foundation	\$497,121
Milenkovic, Tijana(PI)	AF: Small: What Can Networks Tell Us About Aging?	National Science Foundation	\$499,986
Chen, Danny Z(PI)	AF: Small: Applied and Theoretical Algorithm Problems in Computational	National Science Foundation	\$500,000
Niemier, Michael T(PI) Bernstein, Gary H(CO-PI) Hu, Xiaobo(CO-PI) Jena, Debdeep(CO-PI) Porod, Wolfgang(CO-PI)	SHF: Small: Computing in "Extreme Environments" with Nanomagnet Logic	National Science Foundation	\$500,000
		Department Total	\$3,551,477
Research: Electrical Engineering			
Laneman, J. Nicholas(PI)	COPY CIF:Small:Collaborative Research: New Foundations for Physical-La	National Science Foundation	\$247,890
Antsaklis, Panos J(PI)	CSR:Small:Collaborative Research:Automating Concurrent Programming wit	National Science Foundation	\$249,404
Haenggi, Martin(PI)	CIF: Small: Interference Engineering in Wireless Systems	National Science Foundation	\$470,117
Huang, Yih-Fang(PI)	CIF: Smaall: Event-Triggered Distributed Estimation	National Science Foundation	\$499,652

Proposals submitted during the period 12/1/2011 to 12/31/2011

Investigators(s)	Proposal Title	Sponsor	Proposal \$
Research: Electrical Engineering			
Gupta, Vijay(CO-PI)	CIF: Smaall: Event-Triggered Distributed Estimation	National Science Foundation	\$499,652
Pratt, Thomas G(PI) Fuja, Thomas E(CO-PI)	CIF: Small: High-Fidelity Input-to-Output Polarization Channel Modelin	National Science Foundation	\$499,842
Pratt, Thomas G(PI)	Pulse-Source Associations Using Polarimetric Techniques	National Security Agency	\$326,331
		Department Total	\$2,293,236
Research: History			
Martin, Alexander(PI)	Seeking a New Life in an Age of Revolution: A German-Russian Odyssey,	Princeton University	\$45,000
		Department Total	\$45,000
Research: Philosophy			
Karbowski, Joseph(PI)	Human Nature in Aristotle's Nicomachean Ethics and Politics	Center for Hellenic Studies	\$34,000
Ramsey, Grant A(PI) Fuentes, Agustin(CO-PI)	Fitness as foundation: Exploring the basis of evolutionary accounts of	National Endowment for the Humar	\$178,990
		Department Total	\$212,990
Research: Physics			
Toroczkai, Zoltan(PI) Chawla, Nitesh V(CO-PI)	Ensemble-Based Modeling of Large Graphs and its Applications to Social	DARPA	\$3,239,928
Ptasinska, Sylwia(PI)	The influence of amino acids on DNA damage induced by low energy elect	Foundation	\$8,000
Wayne, Mitchell R(PI)	Sharing the Frontier: Physics for Everyone	National Science Foundation	\$150,000
Balsara, Dinshaw S(PI)	Developing High Order ADER Timestepping Schemes for Stiff Source Terms	National Science Foundation	\$208,384
Balsara, Dinshaw S(PI) Nabrzyski, Jaroslaw(CO-PI) Tryggvason, Gretar(CO-PI)	EXP: Prototyping the eTextBook of the Future - A Web-Enabled eTextBoo	National Science Foundation	\$547,387
Delgado, Antonio(PI) Bigi, Ikaros I(CO-PI) Kolda, Christopher F(CO-PI)	Electroweak Physics and New Dynamics at the LHC	National Science Foundation	\$984,867
Wayne, Mitchell R(PI)	QuarkNet	National Science Foundation	\$7,714,719
		Department Total	\$12,853,285
Research: Political Science			
McGraw, Sean D(PI)	Democracy's Choices: Irish Parties and the Constraining of the Politic	American Council Learned Society	\$35,000
Rosato, Sebastian(PI)	Hoping for the best or fearing the worst?: States' intentions and inte	Foundation	\$35,000
Bleck, Jaimie(PI)	New Civics: Local Radio Making Democratic Agents in Rural Africa	Foundation	\$39,544
		Department Total	\$109,544
Research: Psychology			
Cheng, Ying(PI)	ICES: Small: Cognitive Diagnostic Computerized Adaptive Testing	National Science Foundation	\$391,389

Proposals submitted during the period 12/1/2011 to 12/31/2011

Investigators(s)	Proposal Title	Sponsor	Proposal \$
Research: Psychology			
		Department Total	\$391,389
Research: Romance Languages and Literatures			
Ferri, Sabrina(PI)	Temporal Ruinations: A History of Time in Italy, 1744-1836	American Academy in Rome	\$35,000
Ferri, Sabrina(PI)	Temporal Ruinations: A History of Time in Italy, 1744-1836	Columbia University	\$40,000
Douthwaite, Julia V(PI)	The French Franksteins by Francois-Felix Nogaret	National Endowment for the Human	\$152,207
Ferri, Sabrina(PI)	Temporal Ruinations: A History of Time in Italy, 1744-1836	National Humanities Center	\$35,000
		Department Total	\$262,207
Research: Theology			
Young, Robin D(PI)	The Gnostic Trilogy of Evagrius of Pontus	National Endowment for the Human	\$426,202
		Department Total	\$426,202