

**University of Arkansas, Fayetteville**  
**Fiscal Year 2010 - August 2009 Proposals Report**

Unit	PI Dept	PI Name	All Investigators	Sponsor	Project Title	Sponsor Costs	Institution No.
Administration	VCAA	Charles Robinson	Robinson, Charles~	Arkansas Department of Human Services (DHS)	AmeriCorps Promise Fellows	\$12,236	PT09-000603
Administration	VCFA	Ali Sadeghi	Sadeghi, Ali~	U.S. Department of Education	Book Rental Development Project	\$300,622	PT09-000475
Agriculture, Food, & Life Sciences	BAEG	Yanbin Li	Li, Yanbin~	SenMater Technology LLC	Impedance ELISA for Detection of Avian Influenza Virus	\$50,000	PT09-000553
Agriculture, Food, & Life Sciences	CSES	Dick Oliver	Oliver, Dick~	Monsanto Company	Encapsulated Acetochlor in Soybean	\$4,880	PT09-000585
Agriculture, Food, & Life Sciences	FDSC	Sun-Ok Lee	Lee, Sun-Ok~	Ocean Nano Tech LLC	Toxicity Evaluation of Engineered Nanomaterials in Animals	\$120,000	PT09-000507
Agriculture, Food, & Life Sciences	PLPA	John C Rupe	Rupe, John C~	Monsanto Company	MON 79789 and Mixtures Efficacy on Soybean Charcoal Rot	\$29,999	PT09-000404
Agriculture, Food, & Life Sciences	SREC	Ken Smith	Smith, Ken~	Monsanto Company	Encapsulated Acetochlor in Cotton -- EUP Academic -- 2009-01-04-09	\$4,880	PT09-000582
Agriculture, Food, & Life Sciences	UAMF	Todd Fearer	Fearer, Todd~	Arkansas Game and Fish Commission	Adapting a Habitat Model for Timber Rattlesnakes (Crotalus horridus) to Assess the Potential Distribution of Western Diamondback Rattlesnakes (C. atrox) in Arkansas	\$39,269	PT09-000048
College of Arts & Sciences	BISC	Daniel Lessner	Lessner, Daniel~	U.S. Department of Energy	Analysis of an Fe-S cluster containing disulfide reductase from methanosarcina acetivorans	\$947,070	PT09-000565
College of Arts & Sciences	CAST	W Fred Limp	Limp, W Fred~	National Park Service/Department of the Interior	National Archeology Program	\$14,999	PT09-000602
College of Arts & Sciences	MASC	Andrew Seth Raich	Raich, Andrew Seth~	National Science Foundation (NSF)	Two Spring Lecture Series in Geometric Analysis	\$97,638	PT09-000537
College of Arts & Sciences	MASC	Joon Jin Song	Song, Joon Jin~	U.S. Department of Energy	Statistical Characterization and Prediction of Spatially Distributed Functional Data	\$791,028	PT09-000506
College of Arts & Sciences	PHYS	Gregory J Salamo	Salamo, Gregory J~	National Institute of Standards & Technology/Technology Administration/DOC	Building for Advanced Measurement for Nanoscale Materials	\$15,000,000	PT09-000420
College of Arts & Sciences	PHYS	Jak Tchakhalian	Tchakhalian, Jak~	U.S. Department of Energy	Interface Controlled Mott Physics in Novel Correlated Oxide Heterostructures	\$976,611	PT09-000580
College of Arts & Sciences	PSYC	Timothy A. Cavell	Cavell, Timothy A.~	Behavior Therapy and Counseling Clinic	Clerkship in Child Behavior Therapy (2009-2010) -- Chad Parsons	\$5,042	PT09-000511
College of Arts & Sciences	PSYC	Timothy A. Cavell	Cavell, Timothy A.~	Behavior Therapy and Counseling Clinic	Clerkship in Child Behavior Therapy (2009-2010) -- Jamie Frala	\$10,083	PT09-000512

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College of Arts & Sciences	PSYC	Timothy A. Cavell	Cavell, Timothy A.~	The Village Institute for Psychotherapy	Clerkship in the Application of Psychodynamic and Cognitive Behavior Techniques in the Treatment of Substance Abuse and Other Psychological Problems -- Elizabeth Chaisson	\$10,083	PT09-000513
College of Arts & Sciences	PSYC	Lindsay Ham	Ham, Lindsay~	Alcoholic Beverage Medical Research Foundation	Alcohol's Effects on Emotional Facial Cue Processing as a Mechanism for Social Stress Response Dampening	\$110,424	PT09-000471
College of Arts & Sciences	PSYC	Ellen W Leen-Feldner	Leen-Feldner, Ellen W~	National Institutes of Health/DHHS (NIH)	An Experimental Test of Trauma-Relevant Cue Exposure and Alcohol Use Among Youth	\$58,182	PT09-000498
College of Arts & Sciences	SCSW	Kameri Christy-McMullin	Christy-McMullin, Kameri~	Indiana Housing & Community Development Authority	Evaluation Services Educational Development Account (EDA) Pilot Program	\$150,000	PT09-000584
College of Business	ECON	Raja Kali	Kali, Raja~	National Science Foundation (NSF)	Complex Trade Networks and Economic Growth	\$118,952	PT09-000538
College of Business	ISYS	Bill C Hardgrave	Hardgrave, Bill C~	Tyson Foods, Inc.	Tyson Cold Chain Load Temperature Profile Measurement Testing Proposal - Phase III	\$18,878	PT09-000557
College of Business	ISYS	Bill C Hardgrave	Hardgrave, Bill C~	UPM Raflatac	UPM Raflatac Corn Tagging Feasibility Study	\$23,838	PT09-000558
College of Education & Health Professionals	EDRE	Gary W Ritter	Ritter, Gary W~	Fountain Lake Public School District	Evaluation of the Fountain Lake Accountability Program	\$11,991	PT09-000505
College of Engineering	CHEG	Christa N Hestekin	Hestekin, Christa N~	National Science Foundation (NSF)	Study of early stages of amyloid protein aggregation using microchannel electrophoresis (Subaward)	\$272,528	PT09-000581
College of Engineering	CHEG	Keith Roper	Roper, Keith~	National Science Foundation (NSF)	NSF Graduate Research Fellowship -- Aaron Russell	\$121,500	PT09-000561
College of Engineering	CHEG	Greg Thoma	Cothren, Jackson D.~Matlock, Marty~Thoma, Greg~	Dairy Management, Inc.	Life Cycle Assessment for Dairy Fluid Milk: Beyond Carbon	\$120,390	PT09-000516
College of Engineering	CHEG	Richard K Ulrich	Chevrier, Vincent~Roe, Larry A~Ulrich, Richard K~	National Aeronautics & Space Administration (NASA)	Optical Probe for Regolith Analysis (OPRA), Phase II	\$399,058	PT09-000494
College of Engineering	CSCE	David Andrews	Andrews, David~	ITT Corporation	MILS Hardware and Its Formal Methods-Based Security	\$66,143	PT09-000111
College of Engineering	CSCE	Amy W Apon	Apon, Amy W~	National Science Foundation (NSF)	Upgrading to a Sustainable Infrastructure for Research Computing	\$1,976,624	PT09-000425
College of Engineering	CSCE	Amy W Apon	Apon, Amy W~	National Science Foundation (NSF)	CASC 20th Anniversary Symposium: Changing Science and Engineering	\$25,000	PT09-000559

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College of Engineering	CSC	Amy W Apon	Spearot, Douglas E~Cothren, Jackson D.~Apon, Amy W~Pulay, Peter~Bellaiche, Laurent~	National Science Foundation (NSF)	MRI-R2: Acquisition of an Integrated Instrument for Computational Research and Education	\$1,999,999	PT09-000436
College of Engineering	CSC	Susan Gauch	Gauch, Susan~	Pennsylvania State University	Collaborative Research: Semantic CiteseerX	\$260,485	PT09-000514
College of Engineering	CSC	Dale R Thompson	Di, Jia~Thompson, Dale R~	National Science Foundation (NSF)	TC:Medium:Fingerprinting RFID Tags with Transfer-of-Ownership Capabilities	\$1,199,477	PT09-000575
College of Engineering	CVEG	Brady R Cox	Cox, Brady R~	Arkansas Highway and Transportation Department (AHTD)	Practical Recommendations for Evaluation & Mitigation of Soil Liquefaction in Arkansas	\$35,423	PT09-000578
College of Engineering	CVEG	Julian Fairey	Fairey, Julian~	BlueInGreen	Commercial Development of the HyDOZ for the Drinking Water Treatment Market	\$124,878	PT09-000599
College of Engineering	CVEG	Kirk Grimmelsman	Grimmelsman, Kirk~	Arkansas Highway and Transportation Department (AHTD)	Rapid Condition Screening of Bridges by Falling Weight Deflectometer	\$38,211	PT09-000576
College of Engineering	CVEG	Kirk Grimmelsman	Grimmelsman, Kirk~	University of Connecticut	Hybrid Analysis Framework with Integrated Sensing and Control Towards Resilient and Sustainable Bridge Structures under All-Hazards	\$130,623	PT09-000568
College of Engineering	CVEG	Kelvin C Wang	Wang, Kelvin C~	Texas Southern University	Development of an Interactive Petrochemical Incident Location System (PILS)	\$100,000	PT09-000614
College of Engineering	ELEG	Samir M. El-Ghazaly	El-Ghazaly, Samir M.~	National Science Foundation (NSF)	IPA Assignment -- El-Ghazaly	\$276,297	PT09-000598
College of Engineering	ELEG	Magda O Elshenawee	Smith, Scott C~Elshenawee, Magda O~	National Science Foundation (NSF)	MRI-R2: Development of High Performance Microwave Imaging Instrument	\$887,616	PT09-000508
College of Engineering	ELEG	Omar Manasreh	Manasreh, Omar~	Department of Defense (DOD)	Electron beam evaporator for electronic and optoelectronic device fabrication	\$220,909	PT09-000517
College of Engineering	ELEG	Omar Manasreh	Yu, Shui-Qing (Fisher)~Salamo, Gregory J~Ang, Simon S~Fu, Huaxiang~Manasreh, Omar~	National Science Foundation (NSF)	Growth and functionalization of nanoscale materials for photovoltaic devices	\$3,000,000	PT09-000344
College of Engineering	ELEG	Omar Manasreh	Manasreh, Omar~	Air Force Office of Scientific Research (AFOSR)	Functionalization of Semiconductor Nanomaterials for Optoelectronic Devices and Components	\$450,003	PT09-000554

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College of Engineering	ELEG	Hameed A Naseem	Ji, Taeksoo~Yu, Shui-Qing (Fisher)~Salamo, Gregory J~Naseem, Hameed A~Ang, Simon S~	National Science Foundation (NSF)	MRI-R2: Acquisition of An Ultra-High-Vacuum Plasma-Enhanced Atomic-Layer Chemical Vapor Deposition Systemn for SnGeSiC based Optoelectronic/Electronic Devices	\$1,638,750	PT09-000482
College of Engineering	ELEG	Vijay Varadan	Varadan, Vijay~	Alabama A&M University	Development of Nanowire & SERS Based System for Missile & Environmental Health Monitoring & Chemical Species Detection	\$44,987	PT09-000555
College of Engineering	INEG	Justin R Chimka	Chimka, Justin R~	Tougaloo College	National Network of Regional Surface Transportation Security Education and Training Centers	\$24,949	PT09-000569
College of Engineering	INEG	Scott J Mason	Rainwater, Chase~Pohl, Edward~Rossetti, Manuel R~Mason, Scott J~	U.S. Department of Homeland Security	Mack-Blackwell Rural Transportation Center (MTC) NTSCOE A Modeling and Analysis Framework for Threat, Vulnerability, and Consequence Assessment of Surface Transportation Systems	\$496,414	PT09-000572
College of Engineering	INEG	Heather L Nachtmann	Nachtmann, Heather L~	U.S. Department of Homeland Security	Supporting Secure and Resilient Inland Waterways	\$299,613	PT09-000426
College of Engineering	MEEG	Douglas E Spearot	Spearot, Douglas E~	U.S. Department of Energy	Physical and Irradiation Induced Behavior of Solute-Modified Metallic Nanocrystalline Materials	\$765,581	PT09-000600
College of Engineering	MEEG	Uchechukwu C Wejinya	Wejinya, Uchechukwu C~	U.S. Department of Energy	Characterization of Vertically Aligned Carbon Nanofibers (VACNFs) Under Different Environmental Conditions	\$766,034	PT09-000563
Graduate School / Vice Provost for Research	ACSPS	Vincent Chevrier	Chevrier, Vincent~	National Aeronautics & Space Administration (NASA)	Study of the stability and dynamics of water at the Phoenix landing site	\$249,458	PT09-000463
Graduate School / Vice Provost for Research	OVPR	Collis R Geren	Geren, Collis R~	U.S. Department of Energy	Arkansas Smart Test Grid for the 21st Century	\$199,527,248	PT09-000485
Graduate School / Vice Provost for Research	RSSP	Phillip S Stafford	Stafford, Phillip S~	Arkansas Economic Development Commission	Enterprise Center Lab Infrastructure	\$1,200,000	PT09-000574
Vice Chancellor-Finance & Administration	PARK	Michael J Seither	Seither, Michael J~	U.S. Department of Transportation (DOT)	US/FTA/TRST/5309 Discretionary/Seither	\$570,000	PT09-000583
<b>Current Month:</b>						<b>\$236,194,903</b>	
Same Month Previous Year:						\$6,053,397	
Current Year to Date:						\$259,298,123	
Previous Year to Date:						\$24,718,187	