

University of Arkansas, Fayetteville

Fiscal Year 2010 - July 2009 Proposals Report

Unit	PI Dept	PI Name	All Investigators	Sponsor	Project Title	Sponsor Costs	Institution No.
Agriculture, Food, & Life Sciences	BAEG	Danielle (Julie) Carrier	Carrier, Danielle (Julie)~	Arkansas State University	Unraveling the Biosynthesis of Stilbenoids: A Comparative Transcriptional and Metabolomic Approach	\$ 181,393	PT09-000479
Agriculture, Food, & Life Sciences	BAEG	Brian Haggard	Haggard, Brian~	Kings River Watershed Partnership	Water Quality Monitoring and Constituent Load Estimation at the Kings River near Berryville, Arkansas	\$ 39,184	PT09-000454
Agriculture, Food, & Life Sciences	BAEG	Yanbin Li	Li, Yanbin~	Ocean Nano Tech LLC	Phase II: Magnetic Nanoparticle Microfluidics for Highly Efficient Capture, Separation and Concentration of Foodborne Pathogens	\$ 250,001	PT09-000499
Agriculture, Food, & Life Sciences	BAEG	Yanbin Li	Li, Yanbin~	Ocean Nano Tech LLC	Magnetic Nanoparticle Microfluidics for Highly Efficient Capture, Separation and Concentration of Foodborne Pathogens	\$ 25,000	PT09-000502
Agriculture, Food, & Life Sciences	BAEG	David Zaharoff	Zaharoff, David~	National Institutes of Health/DHHS (NIH)	Chitosan-based Delivery and Immunopotential of Cancer Vaccines	\$ 511,366	PT09-000451
Agriculture, Food, & Life Sciences	ENTO	Ashley P.G. Dowling	Dowling, Ashley P.G.~	National Science Foundation (NSF)	REVSYS: Systematics of Raoiella (Acari: Tenuipalpidae) and Phylogeography of the Invasive Red Palm Mite, R. indica	\$ 281,404	PT09-000464
Agriculture, Food, & Life Sciences	ENTO	Fiona Goggin	Goggin, Fiona~	National Science Foundation (NSF)	Influence of fatty acid desaturation on plant defenses against aphids	\$ 637,450	PT09-000391
Agriculture, Food, & Life Sciences	ENTO	Allen Lawrence Szalanski	Szalanski, Allen Lawrence~	BioDetection Instruments, LLC	Bacteriophage-based control of American foulbrood in honey bees	\$ 30,000	PT09-000474
Agriculture, Food, & Life Sciences	FDSC	Ruben Morawicki	Morawicki, Ruben~	National Science Foundation (NSF)	CAREER: Assessment of the environmental sustainability of subcritical water as an alternative reaction medium to acids/bases and enzymes for protein hydrolysis	\$ 623,566	PT09-000480
College of Arts & Sciences	ANTH	Kenneth L Kvamme	Kvamme, Kenneth L~	Idaho Power Company	Geophysical Surveys at 10EL462, Elmore County, Idaho	\$ 16,424	PT09-000453
College of Arts & Sciences	ANTH	Peter Ungar	Ungar, Peter~Malshe, Ajay Prabhakar~	National Science Foundation (NSF)	Collaborative Research: Rodent Diets and Habitat Reconstructions in South Africa: An Actualistic and Applied Multidisciplinary Study	\$ 52,015	PT09-000346
College of Arts & Sciences	BISC	Steven J Beaupre	Beaupre, Steven J~	Arkansas Biosciences Institute (ABI)	Pilot-Scale High Throughput Sequencing of the Timber Rattlesnake Genome	\$ 77,990	PT09-000542

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College of Arts & Sciences	BISC	Ralph L Henry	Du, Yuchun~Goforth, Robyn~Kumar, Suresh T.~Beitle, Robert~Henry, Ralph L~	Arkansas Biosciences Institute (ABI)	Maintenance of FPLC-Based Purification Capabilities	\$ 19,843	PT09-000531
College of Arts & Sciences	BISC	Ralph L Henry	Goforth, Robyn~Kumar, Suresh T.~Henry, Ralph L~	National Science Foundation (NSF)	The Membrane Interface for Protein Targeting and Insertion	\$ 764,531	PT09-000472
College of Arts & Sciences	BISC	Gary Huxel	Huxel, Gary~	National Science Foundation (NSF)	The Influence of Predator Diversity, Productivity and Prey Behavior on Prey Suppression	\$ 635,041	PT09-000455
College of Arts & Sciences	BISC	Daniel Lessner	Lessner, Daniel~Ivey, David M~Kral, Timothy A~Silberman, Jeffrey~	Arkansas Biosciences Institute (ABI)	Acquisition of Equipment for the Large-Scale Cultivation of Anaerobic Microorganisms & Purification of Oxygen-Sensitive Biomolecules	\$ 43,240	PT09-000523
College of Arts & Sciences	BISC	Ines Pinto	Pinto, Ines~	Arkansas Biosciences Institute (ABI)	The Role of Histone H2B in Centromere Function & Chromosome Segregation	\$ 45,298	PT09-000548
College of Arts & Sciences	BISC	Douglas D Rhoads	Rhoads, Douglas D~	Arkansas Biosciences Institute (ABI)	Emergency Power Generation for Ferritor Hall	\$ 15,000	PT09-000535
College of Arts & Sciences	BISC	Jeffrey Silberman	Silberman, Jeffrey~	Arkansas Biosciences Institute (ABI)	Morphology & Phylogeny of Free-Living Relatives of Trichomonad Parasites	\$ 43,891	PT09-000547
College of Arts & Sciences	BISC	Steven Stephenson	Stephenson, Steven~	National Park Service/Department of the Interior	NCR Fungal Diversity Website	\$ 20,000	PT09-000092
College of Arts & Sciences	BISC	Steven Stephenson	Stephenson, Steven~	National Science Foundation (NSF)	Biodiversity of Desert Myxomycetes	\$ 582,434	PT09-000302
College of Arts & Sciences	CAST	Jackson D. Cothren	Cothren, Jackson D.~Williamson, Malcolm D~	East Initiative	GeoSpatial and Visualization Support & Training for the EAST Initiative	\$ 249,831	PT09-000440
College of Arts & Sciences	CAST	W Fred Limp	Limp, W Fred~	National Science Foundation (NSF)	Transatlantic Archaeological Literature Mining (TALM)	\$ 99,938	PT09-000458
College of Arts & Sciences	CHBC	Paul D. Adams	Adams, Paul D.~	Arkansas Biosciences Institute (ABI)	Characterization of a Minimal RAS-GTPASE Binding Domain Peptide Derivative of Tuberous Sclerosis-2 (TSC-2) That Binds to the RAS Protein, RHEB	\$ 96,611	PT09-000528

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College of Arts & Sciences	CHBC	Ingrid Fritsch	Fritsch, Ingrid~	Arkansas Biosciences Institute (ABI)	New Approach for Detection of Neurotransmitters in Mixtures Suitable for In Vivo Analysis	\$ 51,711	PT09-000562
College of Arts & Sciences	CHBC	Robert Gawley	Gawley, Robert~	Arkansas Biosciences Institute (ABI)	Catalytic Dynamic Resolutions of Chiral Reactive Intermediates	\$ 56,101	PT09-000532
College of Arts & Sciences	CHBC	Colin Heyes	Heyes, Colin~	Arkansas Biosciences Institute (ABI)	Hole-Trapping in Quantum Dots & Their Connection to Fluorescence Blinking: Implications for Improving Biomedical Research	\$ 70,000	PT09-000524
College of Arts & Sciences	CHBC	James F Hinton	Hinton, James F~	Arkansas Biosciences Institute (ABI)	A Multiuser Computation & Visualization Facility for Protein Structure & Function	\$ 74,759	PT09-000530
College of Arts & Sciences	CHBC	Roger E Koeppe II	Koeppe II, Roger E~	University of Arkansas for Medical Sciences (UAMS)	INBRE: Partnerships for Biomedical Research in Arkansas	\$ 1,519,710	PT09-000487
College of Arts & Sciences	CHBC	Suresh T. Kumar	Kumar, Suresh T.~Daily, Anna~McNabb, David S~	Arkansas Biosciences Institute (ABI)	Rational Design of a Novel Peptide Drug Against Pathogenic Fungi	\$ 99,166	PT09-000550
College of Arts & Sciences	CHBC	Suresh T. Kumar	Kumar, Suresh T.~	National Science Foundation (NSF)	Molecular Biochemistry of the Non-Classical Release of Enterleukin 1 alpha	\$ 483,005	PT09-000381
College of Arts & Sciences	CHBC	Jackson Lay	Lay, Jackson~	Arkansas Biosciences Institute (ABI)	Investigation of Anaphylaxis to IGE Specific Galactose-A-1,3-Galactose in Residents of Arkansas & Surrounding States	\$ 28,400	PT09-000549
College of Arts & Sciences	CHBC	Matthias McIntosh	Zaharoff, David~McIntosh, Matthias~	Arkansas Biosciences Institute (ABI)	Development of Novel Chitosan-Based Avceines for Treatment of Meth Addiction	\$ 98,605	PT09-000536
College of Arts & Sciences	CHBC	Joshua Sakon	Sakon, Joshua~	Arkansas Biosciences Institute (ABI)	Using FRET to Determine Structural & Kinetic Parameters of Collagen Binding Domains	\$ 88,558	PT09-000545
College of Arts & Sciences	CHBC	Wesley E Stites	Stites, Wesley E~	Arkansas Biosciences Institute (ABI)	Develop Methods for the Characterization of the Oxidation State of MET843 in the Proteolytic Cleavage Site	\$ 69,113	PT09-000546
College of Arts & Sciences	CHBC	Charles L Wilkins	Wilkins, Charles L~	National Science Foundation (NSF)	Mass Spectrometry Analysis of Polymers	\$ 736,413	PT09-000353
College of Arts & Sciences	CHBC	Charles L Wilkins	Wilkins, Charles L~	Arkansas Biosciences Institute (ABI)	Phospholipid Profiling of Yeast & Mutant Yeast in Studies of Ubiquitin Metabolism by FTMS	\$ 45,366	PT09-000534
College of Arts & Sciences	CHBC	Nan Zheng	Zheng, Nan~	Arkansas Biosciences Institute (ABI)	The Use of Azirines in Iron-Catalyzed Formation of Carbon-Nitrogen Bonds	\$ 51,131	PT09-000533
College of Arts & Sciences	GEOS	John C Dixon	Dixon, John C~	National Aeronautics & Space Administration (NASA)	An experimental and numerical study of fluid mechanics and geomorphological processes in liquid flows on the martian surface	\$ 459,302	PT09-000446
College of Arts & Sciences	GEOS	Sonja Hausmann	Hausmann, Sonja~	National Science Foundation (NSF)	CAREER: Oxbow Lake Sediments as Archives for Floods and Human Impact	\$ 600,063	PT09-000486

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College of Arts & Sciences	GEOS	Fang-Zhen Teng	Teng, Fang-Zhen~	National Science Foundation (NSF)	CAREER: Investigations of Magnesium Isotopic Systematics of the Continental Crust	\$ 405,443	PT09-000493
College of Arts & Sciences	MASC	Joon Jin Song	Song, Joon Jin~	National Science Foundation (NSF)	CAREER: Statistical Analysis of Spatially Distributed Functional Data: Exploration, Modeling and Inference	\$ 400,000	PT09-000491
College of Arts & Sciences	MASC	Joon Jin Song	Kong, Byung-Whi~Song, Joon Jin~Bottje, Walter G.~	Arkansas Biosciences Institute (ABI)	Analytic-Enabled Integrative Analysis of MicroArray Studies	\$ 63,819	PT09-000525
College of Arts & Sciences	PHYS	Julia Kenefick	Kenefick, Julia~	National Science Foundation (NSF)	CAREER: The Black Hole Mass Function, Linking Local Galaxies to Distant Quasars	\$ 581,977	PT09-000442
College of Arts & Sciences	PHYS	Jiali Li	Li, Jiali~	National Science Foundation (NSF)	Collaborative Research: Characterization of Unfolded Protein in Artificial Ion Channels	\$ 339,814	PT09-000456
College of Arts & Sciences	PHYS	Gregory J Salamo	Salamo, Gregory J~	National Institute of Standards & Technology/Technology Administration/DOC	Development of a Novel Instrument for Measurement of the Coherent Interactions between Photons and Quantum Dots for Quantum Information Processing	\$ 975,988	PT09-000422
College of Arts & Sciences	PHYS	Jak Tchakhalian	Tchakhalian, Jak~	Arkansas Biosciences Institute (ABI)	Nucleation of Proteins on the Surface	\$ 57,560	PT09-000544
College of Arts & Sciences	PHYS	Paul M Thibado	Thibado, Paul M~	U.S. Department of Energy	Transport Through Defects in Graphene Wafers: An Atomic Scale Real-Space Investigation	\$ 691,898	PT09-000434
College of Arts & Sciences	PHYS	Zhiming Wang	Wang, Zhiming~	Arkansas Biosciences Institute (ABI)	Non-(100) Based Nanostructure Superluminescent Diodes for Biomedical Imaging Application	\$ 66,188	PT09-000564
College of Arts & Sciences	PSYC	Ana Julia Bridges	Bridges, Ana Julia~	Community Clinic at St. Francis House	Clerkship in Integrated Behavioral Health 2009 - 2010	\$ 17,490	PT09-000473
College of Arts & Sciences	SCSW	Marcia Shobe	Shobe, Marcia~	Community Action Agency of Southern New Mexico	Nursing Licensing Assistance Program: Well-Being Outcomes	\$ 17,925	PT09-000503
College of Arts & Sciences	SCSW	Marcia Shobe	Shobe, Marcia~	Community Action Agency of Southern New Mexico	Child Care Connections: Participant Outcomes	\$ 13,834	PT09-000504
College of Arts & Sciences	SOCI	Brent L Smith	Smith, Brent L~	University of Maryland	Border Crossings and Terrorist Attacks on the United States: Lessons for Protecting against Dangerous Entrants	\$ 70,606	PT09-000459
College of Business	SBDC	Larry Brian	Brian, Larry~	Arkansas Small Business Development Center	Small Business and Technology Development Center 2010	\$ 95,000	PT09-000435
College of Education & Health Professionals	CIED	Michael Daugherty	Tschepikow, Nick~Daugherty, Michael~	Arkansas Department of Education (ADED)	Northwest ERZ-1	\$ 130,522	PT09-000488

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College of Education & Health Professionals	CIED	Michael Daugherty	Tschepikow, Nick~Daugherty, Michael~	Arkansas Department of Education (ADED)	Northwest ERZ-1	\$ 130,522	PT09-000489
College of Education & Health Professionals	CIED	Deborah A. Davis	Davis, Deborah A.~	Arkansas Department of Education (ADED)	Master Principal Program - FY2010 (year 6)	\$ 500,000	PT09-000450
College of Education & Health Professionals	CIED	Deborah A. Davis	Davis, Deborah A.~	Arkansas Department of Education (ADED)	Arkansas Leadership Academy - FY 2010	\$ 900,000	PT09-000452
College of Education & Health Professionals	HKRD	Rosalie (Ro) Dibrezzo	Dibrezzo, Rosalie (Ro)~	Mercy Health System of Northwest Arkansas	Mercy Health System of Northwest Arkansas -- Exercise Internship Program	\$ 19,949	PT09-000484
College of Education & Health Professionals	HKRD	Gretchen D Oliver	Oliver, Gretchen D~	Arkansas Biosciences Institute (ABI)	Impact of Tobacco Use on the Results of Rotator Cuff Repair	\$ 74,620	PT09-000521
College of Education & Health Professionals	RHRC	Jeanne C Miller	George, Carri~Miller, Jeanne C~	George Washington University	Institute on Rehabilitation Issues	\$ 271,864	PT09-000518
College of Engineering	CHEG	Robert Beitle	Beitle, Robert~Henry, Ralph L~	Arkansas Biosciences Institute (ABI)	Determination & Circumvention of Biochemical Roadblocks Associated with the Production of Biopolymer Conjugates Used in Cancer Gene Therapy	\$ 48,713	PT09-000527
College of Engineering	CHEG	Jamie A Hestekin	Xie, Jining~Hestekin, Jamie A~Varadan, Vijay~	Arkansas Biosciences Institute (ABI)	Implantable Glucose Sensor & Monitor For Diabetes Patients	\$ 88,272	PT09-000540
College of Engineering	CHEG	Christa N Hestekin	Hestekin, Christa N~	Arkansas Biosciences Institute (ABI)	Detection of Diabetes Variants using Microchip Electrophoresis	\$ 39,902	PT09-000543
College of Engineering	CHEG	Keith Roper	Roper, Keith~	National Science Foundation (NSF)	Gold Nanoparticle Ensembles on Optical Plasmon Capillaries for Virus/DNA Sensing	\$ 24,807	PT09-000551
College of Engineering	CHEG	Shannon Servoss	Servoss, Shannon~	National Science Foundation (NSF)	CAREER: OPTIMIZATION OF SANDWICH ENZYME-LINKED IMMUNOSORBENT ASSAY MICROARRAY USING POLY-N-SUBSTITUTED GLYCINES	\$ 421,978	PT09-000223
College of Engineering	CHEG	Shannon Servoss	Servoss, Shannon~	Arkansas Biosciences Institute (ABI)	Mimicking Antibodies: Peptoid-Based Affinity Reagents	\$ 50,008	PT09-000529
College of Engineering	CSCS	Jia Di	Di, Jia~	Space Photonics, Inc.	Radiation Hardened, Ultra-Low Power, and High-Speed Digital Electronics for Extreme Low Temperatures	\$ 245,127	PT09-000552

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College of Engineering	CSCE	Jia Di	Smith, Scott C~Di, Jia~Mantooth, Alan~	U.S. Department of Energy	Ultra-Low Power Asynchronous Mixed-Signal Microcontroller for Energy Efficiency Enhancement and High-Temperature Robustness	\$ 817,842	PT09-000481
College of Engineering	CSCE	Jia Di	Di, Jia~	Air Force Office of Scientific Research (AFOSR)	Asynchronous Cell Matrix for Reconfigurable Cellular Electronics	\$ 362,554	PT09-000461
College of Engineering	CVEG	James (J.L.) Gattis II	Gattis II, James (J.L.)~	Louis Berger Group, Inc.	Safety Evaluation of Access Management Policies and Techniques	\$ 106,246	PT09-000496
College of Engineering	ELEG	Juan C Balda	Balda, Juan C~Mantooth, Alan~	U.S. Department of Army	ARMES -- Army's Resilient Mobile Electricity System: AC vs. DC Distribution Systems	\$ 200,000	PT09-000466
College of Engineering	ELEG	Taeksoo Ji	Ji, Taeksoo~	National Science Foundation (NSF)	CAREER: Multiplexed Microarrays for Biomolecules Detection: A Hybrid Sensor System of Aligned Nanowire Assembly on Organic Field Effect Transistors	\$ 469,170	PT09-000478
College of Engineering	ELEG	Omar Manasreh	Manasreh, Omar~	Defense Threat Reduction Agency	Survivability of Proton Irradiated Semiconductor Nanoscale Materials and Devices	\$ 749,998	PT09-000319
College of Engineering	ELEG	Alan Mantooth	Mantooth, Alan~	U.S. Department of Energy	Silicon Carbide Applications for Reliable Electric Power Transmission	\$ 475,750	PT09-000477
College of Engineering	ELEG	Alan Mantooth	Mantooth, Alan~	Northrop Grumman Corporation	High Temperature Silicon Carbide Power Electronics	\$ 215,788	PT09-000483
College of Engineering	ELEG	Vasundara V. Varadan	Varadan, Vasundara V.~	Army Research Office (ARO)	Electrically Small, Fractal, Plasmonic Resonator Antennas for Vehicle Integrated Antenna Technologies	\$ 158,909	PT09-000462
College of Engineering	ELEG	Jingxian Wu	Wu, Jingxian~	National Science Foundation (NSF)	CAREER: Ultra-Low Power Distortion - Tolerant Wireless Networks for Structure Health Monitoring	\$ 400,007	PT09-000470
College of Engineering	ELEG	Jingxian Wu	Wu, Jingxian~	Arkansas Biosciences Institute (ABI)	Development of Ultra-Low Power Smart Biomedical Sensors: An Integrated Software-Hardware Approach	\$ 52,098	PT09-000522
College of Engineering	ELEG	Shui-Qing (Fisher) Yu	Yu, Shui-Qing (Fisher)~Naseem, Hameed A~	Arizona State University	Ultra-high Efficiency and Very Light Weight Multijunction Solar Cells	\$ 450,001	PT09-000465
College of Engineering	ELEG	Shui-Qing (Fisher) Yu	Yu, Shui-Qing (Fisher)~	Arkansas Biosciences Institute (ABI)	Selective Inactivation of Virus Using Low-Power Continuous-Wave Lasers	\$ 66,933	PT09-000539
College of Engineering	INEG	Justin R Chimka	Chimka, Justin R~	Arkansas Biosciences Institute (ABI)	Developing Quality Control Standards to Evaluate MicroArray Studies	\$ 36,998	PT09-000526
College of Engineering	INEG	C.S. Nam	Nam, C.S.~	National Science Foundation (NSF)	CAREER:WE FEEL SCIENCE: We Engage with the Flexible, Experimental Environment for Learning in SCIENCE	\$ 498,657	PT09-000492

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College of Engineering	MEEG	Douglas E Spearot	Spearot, Douglas E~	National Science Foundation (NSF)	CAREER: Computational Modeling of Microstructure Evolution During Vapor Deposition	\$ 401,001	PT09-000457
College of Engineering	MEEG	Min Zou	Zou, Min~	Arkansas Biosciences Institute (ABI)	Surface Micro/Nano-Texturing for Biomedical Applications	\$ 54,711	PT09-000541
Graduate School / Vice Provost for Research	ACSPS	Vincent Chevrier	Chevrier, Vincent~	National Aeronautics & Space Administration (NASA)	Experimental and Theoretical Study of the Formation, Stability and Detection of Perchlorates and Other Chlorine Oxidation States on Mars	\$ 423,277	PT09-000441
Graduate School / Vice Provost for Research	ACSPS	Vincent Chevrier	Chevrier, Vincent~	National Aeronautics & Space Administration (NASA)	Formation and Stability of Phyllosilicates on Mars: Implications for the Early Martian Environment	\$ 403,277	PT09-000437
Graduate School / Vice Provost for Research	RSSP	Phillip S Stafford	Stafford, Phillip S~	Small Business Administration	University of Arkansas Technology Development Foundation	\$ 100,000	PT09-000476
Graduate School / Vice Provost for Research	SRC	Molly Longstreth	Sharif, Noel Kristine~Gillow, Kim~Longstreth, Molly~	Northwest Arkansas Naturals	Proposal to Survey Residents for their Opinions and Preferences about the NW Arkansas Naturals	\$ 12,821	PT09-000468
Vice Chancellor- Finance & Administration	UAPD	Stephen Gahagans	Gahagans, Stephen~	Arkansas State Police	U of A - Fayetteville Traffic Safety Plan	\$ 30,502	PT09-000469
Current Month: \$ 23,103,220 Same Month Previous Year: \$ 18,664,790 Current Year to Date: \$ 23,103,220 Previous Year to Date: \$ 18,664,790							