

University of Arkansas Fayetteville
FY08 February Proposals

| Unit | PI Dept | PI | Investigators, All | Sponsor | Project Title | Requested Total Sponsor Costs | Institution Number |
|------------------------------------|---------|------------------|---|---|---|-------------------------------|--------------------|
| Agriculture, Food, & Life Sciences | BAEG | Yanbin Li | Wang, Ronghui~Kwon, Young Min~Li, Yanbin~ | National Institutes of Health/DHHS (NIH) | Aptamer SPR Biosensor for Rapid Detection of Avian Influenza Virus | \$364,353.00 | PT08-000097 |
| Agriculture, Food, & Life Sciences | HES | Sue Martin | Martin, Sue~ | Arkansas Department of Human Services (DHS) | Continuation of Beginnings - Year 2 - FY2009 | \$9,184.00 | PT08-000103 |
| Agriculture, Food, & Life Sciences | PLPA | John C Rupe | Rupe, John C~ | Monsanto Company | Foliar Treatment Effect of Glyphosate and N-acetyl Glyphosate on Soybean Diseases | \$24,000.00 | PT08-000071 |
| College of Arts & Sciences | ANTH | Justin Nolan | Nolan, Justin~ | Cherokee Nation of Oklahoma | Cherokee Ethno-botanical and Language Diversity Project | \$38,000.00 | PT08-000066 |
| College of Arts & Sciences | ANTH | Jerome C Rose | Kumar, Ankita~Rose, Jerome C~ | National Science Foundation (NSF) | Doctoral Dissertation Improvement: Bioarchaeology of Early Egypt | \$15,000.00 | PT08-000084 |
| College of Arts & Sciences | ANTH | Jerome C Rose | Rose, Jerome C~ | National Science Foundation (NSF) | Doctoral Dissertation Improvement: Health and Nutrition at Pre-Historic Point Hope, Alaska | \$11,512.00 | PT08-000002 |
| College of Arts & Sciences | BISC | David M Ivey | Ivey, David M~ | National Aeronautics & Space Administration (NASA) | Mineralogical Biosignatures: An In Depth Analysis of a Thermophilic Fe(III) Reducer, Thermolithobacter ferrireducens | \$29,000.00 | PT08-000123 |
| College of Arts & Sciences | BISC | David M Ivey | Ivey, David M~ | Arkansas Space Grant Consortium | Biosignatures of FE & S Respiration: Implications for Mars | \$5,050.00 | PT08-000124 |
| College of Arts & Sciences | BISC | Erik Pollock | Teng, Fang-Zhen~Brahana, John Van~Pollock, Erik~Hays, Phil~ | National Science Foundation (NSF) | Acquisition of Micromilling Equipment for the University of Arkansas Stable Isotope Lab | \$90,574.00 | PT08-000021 |
| College of Arts & Sciences | BISC | Douglas D Rhoads | Rhoads, Douglas D~ | Cobb-Vantress, Inc. | Evaluation of Six Chromosomal Regions as QTLs for Sperm Traits Negatively Affecting Male Fertility in Cobb Broiler Breeders | \$31,599.00 | PT07-000324 |
| College of Arts & Sciences | BISC | Cynthia L Sagers | Sagers, Cynthia L~ | U.S. Environmental Protection Agency (EPA) | Symposium for Agricultural Biotechnology Risk Analysis Research | \$1,018.00 | PT08-000101 |
| College of Arts & Sciences | CAST | W Fred Limp | Limp, W Fred~ | Arkansas Natural & Cultural Resources Council (ANCRC) | Preserving and Visualizing Arkansas Heritage | \$194,913.00 | PT08-000106 |
| College of Arts & Sciences | CAST | W Fred Limp | Limp, W Fred~ | Arkansas Natural Heritage Commission | Terrestrial Habitat Mapping Update for the Boston Mountain and Arkansas Valley Eco-regions | \$23,639.00 | PT08-000067 |
| College of Arts & Sciences | CHBC | Jackson Lay | Lay, Jackson~ | University of Arkansas for Medical Sciences (UAMS) | Protein Kinase C in the Repair of Cellular Functions | \$121,509.00 | PT08-000109 |

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| College of Arts & Sciences | PHYS | Min Xiao | Xiao, Min~ | National Science Foundation (NSF) | Controlling Nonlinear and Quantum Dynamics in Multi-Level Coherent Media: REU Supplement | \$5,000.00 | PT08-000100 |
| College of Arts & Sciences | SCSW | Marcia Shobe | Shobe, Marcia~ | National Institutes of Health/DHHS (NIH) | Scholarships for Health Professions Students from Disadvantaged Backgrounds | \$175,000.00 | PT08-000006 |
| College of Arts & Sciences | SOCI | Brent L Smith | Roberts, Paxton~Cothren, Jackson D.~Limp, W Fred~Harris, Robert W~Smith, Brent L~ | National Institute of Justice (NIJ) | Patterns of Behavior Among Persons Supporting and Financing Terrorism | \$324,769.00 | PT08-000069 |
| College of Business | CBER | Katherine Deck | Deck, Katherine~ | City of Eureka Springs | Estimating the Economic Feasibility of the Underground City Project in Eureka Springs | \$12,367.00 | PT08-000086 |
| College of Education & Health Professionals | HKRD | Heidi Kluess | Kluess, Heidi~ | National Institutes of Health/DHHS (NIH) | Age-related Changes in the Mechanisms of Sympathetic Neurotransmission in Female Skeletal Muscle Arterioles | \$136,277.00 | PT08-000077 |
| College of Engineering | CHEG | Edgar C Clausen | Clausen, Edgar C~ | Arkansas Science & Technology Authority | Butyric Acid Yield Enhancement by Separation of Fermentation Broths and Continuous Electrodialysis | \$1,500.00 | PT08-000152 |
| College of Engineering | CHEG | Christa N Hestekin | Hestekin, Christa N~Beitle, Robert~ | National Institutes of Health/DHHS (NIH) | Understanding Prostate Cancer at the Biochemical Level via Metabolic Flux, Proteome, and Mutational Analysis | \$272,553.00 | PT08-000090 |
| College of Engineering | CHEG | Greg Thoma | Matlock, Marty~Thoma, Greg~Nutter, Darin W~ | Dairy Management, Inc. | Life Cycle Assessment of the Retail Supply Chain: Dairy Products | \$519,548.00 | PT08-000070 |
| College of Engineering | CSCE | Susan Gauch | Gauch, Susan~ | National Science Foundation (NSF) | Supporting Students Attending the 2008 Adaptive Hypermedia Doctoral Consortium | \$14,508.00 | PT08-000076 |
| College of Engineering | CVEG | Norman Dennis Jr | Dennis Jr, Norman~ | Arkansas Highway and Transportation Department (AHTD) | Technology Transfer Program for Local Transportation Agencies in Arkansas | \$56,586.00 | PT08-000065 |
| College of Engineering | CVEG | Rathinan P Selvam | Selvam, Rathinan P~ | National Science Foundation (NSF) | Molecular Dynamics Simulation of Heterogeneous Bubble Nucleation on Modified Surfaces | \$187,348.00 | PT08-000119 |
| College of Engineering | ELEG | Juan C Balda | Balda, Juan C~ | Arkansas Power Electronics International, Inc. | US Navy Phase II SBIR: Fault Current Limiter Testing | \$199,319.00 | PT08-000096 |
| College of Engineering | ELEG | Magda O Elshenawee | Elshenawee, Magda O~ | Entergy Corporation | Use of the Ground Penetrating Radar (GPR) and Advanced Imaging Algorithms to Detect Cracks in Buried Pipes | \$71,512.00 | PT08-000120 |

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| College of Engineering | ELEG | Alan Mantooth | Mantooth, Alan~ | National Science Foundation (NSF) | REU Supplement: Compact Modeling of Silicon Carbide (SiC) Devices for Advanced Power Switching Applications | \$6,000.00 | PT08-000083 |
| College of Engineering | ELEG | Vasundara V. Varadan | Varadan, Vasundara V.~ | General Electric Foundation | Measurement of the Permittivity of Kapton Thin Films at W-Band | \$2,000.00 | PT08-000125 |
| College of Engineering | INEG | Ronald L. Rardin | Rardin, Ronald L.~ | National Science Foundation (NSF) | Optimization of Intensity Modulated Radiation Therapy with Time Varying Delivery Plans & Fraction Constraints | \$121,214.00 | PT08-000072 |
| College of Engineering | MEEG | Ajay Prabhakar Malshe | Malshe, Ajay Prabhakar~ | National Science Foundation (NSF) | Collaborative: Fundamental Understanding of Nanolubricant for High Energy Density Minimum Quantity Lubrication (MQL) Machining for Sustainable Manufacturing | \$210,651.00 | PT08-000038 |
| College of Engineering | MEEG | Ajay Prabhakar Malshe | Malshe, Ajay Prabhakar~ | National Science Foundation (NSF) | Collaborative Research: Fundamental Understanding of Process Mechanism at Sub 20 nm Scale Interfaces for Advancing Nano Electro Machining (nanoEM) | \$274,969.00 | PT08-000037 |
| College of Engineering | MEEG | Ajay Prabhakar Malshe | Malshe, Ajay Prabhakar~ | NanoMech Corporation | Fundamental Understanding of Advanced Multi-Component Nanoparticle Based Lubricants | \$53,838.00 | PT07-000906 |
| College of Engineering | MEEG | Douglas E Spearot | Spearot, Douglas E~ | National Science Foundation (NSF) | GOALI: Novel Lubricant Additives Designed Using Active Nanoparticles Programmable for Harsh Boundary Layer Conditions for Sustainable Systems and Manufacturing | \$429,222.00 | PT08-000087 |
| College of Engineering | MEEG | Steve Tung | Tung, Steve~ | National Science Foundation (NSF) | Combined Molecular Dynamics Simulation and Experimental Characterization of Novel Tobacco Mosaic Virus Polymer Composite | \$358,911.00 | PT08-000089 |
| Graduate School / Vice Provost for Research | SRC | Molly Longstreth | Longstreth, Molly~ | JustCommunities | Assessing the Quality of Life in NW Arkansas: A Proposed Survey | \$90,572.00 | PT08-000099 |
| Graduate School / Vice Provost for Research | SRC | Molly Longstreth | Longstreth, Molly~ | Oklahoma State University | Improving Response Rates to Health Surveys among Rural Native Americans | \$64,254.00 | PT08-000063 |

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| Graduate School / Vice Provost for Research | SRC | Molly Longstreth | Longstreth, Molly~ | Bentonville School District | Project to Evaluate an Educational Initiative to Facilitate Alternative Learning Opportunities for Students at the Mary Mae Jones Elementary School and their Parents | \$4,232.00 | PT08-000062 |
| School of Architecture | ARCH | Robert D Byers | Byers, Robert D~ | Arkansas Department of Human Services (DHS) | Garvan Gardens Environmental Education Development | \$122,960.00 | PT08-000088 |
| School of Architecture | ARCH | Robert D Byers | Byers, Robert D~ | Arkansas Natural & Cultural Resources Council (ANCRC) | 2009 ANCRC Grant Request for Garvan Woodland Gardens | \$1,236,100.00 | PT08-000107 |
| Vice Chancellor for Academic Affairs (PROVOST) | MULN | Judy Ganson | Ganson, Judy~ | Arkansas Science & Technology Authority | Extending the E-Journal Resources for the NSF EPSCoR Grant Program | \$70,000.00 | PT08-000111 |
| Vice Chancellor-Finance & Administration | PHPL | Mike R Johnson | Johnson, Mike R~ | Arkansas Natural & Cultural Resources Council (ANCRC) | Exterior Restoration of Women's Gym (ROTC Building) | \$987,607.00 | PT08-000122 |
| Vice Chancellor-Finance & Administration | PHPL | Mike R Johnson | Johnson, Mike R~ | Arkansas Natural & Cultural Resources Council (ANCRC) | Stabilization and Restoration of Memorial Hall - Phase II | \$3,204,165.00 | PT08-000121 |
| Vice Chancellor-Finance & Administration | PHPL | Mike R Johnson | Johnson, Mike R~ | Arkansas Natural & Cultural Resources Council (ANCRC) | Exterior Restoration of Peabody Hall | \$2,678,809.00 | PT08-000108 |
| | | | | | Current Month | \$12,851,142.00 | |
| | | | | | Same Month Previous Year | \$16,528,984.00 | |
| | | | | | Current Year to Date | \$124,151,108.00 | |
| | | | | | Previous Year to Date | \$110,299,966.00 | |