

**REPORT OF PROPOSALS**

**For the Month of September/ 2003**

<u>Department</u>	<u>Investigator</u>	<u>Sponsor</u>	<u>Title</u>	<u>Amount</u>
<b>BIOMEDICAL ENG'G.</b>	Helmer, K. *Hoffman, A.	DHHS	Water Distribution and Mechanical Behavior in Tendon	\$ 1,279,379
<b>CIVIL &amp; ENVIRONMENTAL ENGINEERING</b>	Bergendahl, J.	Chase Corporation	Proposal to Evaluate Chloride Diffusion Through Rosphalt	\$ 9,266
	Plummer, J. *Mallick, R.	NSF	REU Site: Motivation Talented Students, Woman and Underrepresented Minorities Through Research Experiences in Environmental & Transportation Engineering	\$ 209,964
	Mallick, R.	Chase Corporation	A Proposal for Evaluation of Rutting and Shoving Potential of HMA with Rosphalt	\$ 15,192
	Bergendahl, J. *Thompson, R.	ACS-Petroleum Research Fund	Removal of MTBE from Water Through Coupled Nanoporous Sorption/Advanced Oxidation	\$ 120,000
<b>COMPUTER SCIENCE</b>	Heffernan, N.	Sonalysts, Inc.	Warrior Tutoring	\$ 34,999
<b>ELECTRICAL &amp; COMPUTER ENGINEERING</b>	Sunar, B.	Intel Corporation	New Cryptographic Features for Intel's Network Processor Platforms	\$ 256,568
	Pedersen, P.	Children's Hospital Boston	An Animal Model to Optimize Ultrasound Lung Imaging	\$ 76,383

	Clancy, E.	Spaulding Rehab. Hospital in Boston	Enhancing Motor Learning in Stroke Patients	\$	50,001
	Brown, D.	Bose, Inc.	Analysis of Car Noise Received by Hands-Free Microphones	\$	7,000
	Brown, D.	Bose, Inc.	Automotive Speech Recognition Evaluation Tools and Process	\$	7,000
	Brown, D.	Bose, Inc.	Removing Passing Car Noise from an Automotive Hands-Free Phone	\$	70,931
<b>IGSD</b>	Krueger, R.	NSF	Mapping Sustainabilities: Characterizing Urban Sustainability in the US	\$	161,613
<b>MATHEMATICAL SCIENCES</b>	Heinricher, A. *Weekes, S. *Morales, C.	NSF	REU Site: REU in Industrial Mathematics and Statistics	\$	299,773
	Vernescu, B. *Lurie, K. *Lui, R. *Nandram, B. *Martin, W. *Walker, H.	NSF	Enhancing the Mathematical Sciences Workforce in the 21st Century	\$	2,239,120
	Vernescu, B.	MIT Lincoln Labs.	Focal Plane Tracking Algorithm Development	\$	74,726
<b>MECHANICAL ENG'G.</b>	Tryggvason, G.	Chevron Texaco	Advanced Modeling of Multiphase Flow Problems, Phase IIIc	\$	73,876
	Demetriou, M.	National Research Council	Optimum Location of Moving Observations for State Estimation & Fault Detection of Distributed Parameter Systems	\$	5,100

Sullivan, J. *Zhang, Q.	UMASS Medical School Worcester	Development of a Segmented Marmoset Atlas Suitable for fMRI Analyses of Idiopathic Seizures in Monkeys	\$	439,771
Rong, Y.	NSF	GOALI: Integrated Geometry Variation Prediction & Control in Assembly	\$	243,096
Pryputniewicz, R. *Furlong, C.	BWXT Pantex LLC	Development of OEH Methodology for Shape Measurements	\$	126,773
Sisson, R. *Rong, Y.	NSF	Modeling and Simulation of Induction Hardening Processes	\$	417,070
Pryputniewicz, R. *Furlong, C.	Honeywell Federal M&T, LLC	Preliminary Quantitative Characterization of AMBER II Using OEH Methodology	\$	119,931
<b>*CPI</b>		<b>Total</b>	<b>\$</b>	<b>6,337,532</b>