

## REPORT OF PROPOSALS

For the Month of February/2005

<u>Department</u>	<u>Investigator</u>	<u>Sponsor</u>	<u>Title</u>	<u>Amount</u>
<b>BIOLOGY &amp; BIOTECHNOLOGY</b>	Adams, D. S.	R.I. Hospital (DHHS)	Innate Immune Priming Without Cytokine Transcription	\$ 717,800
<b>BIOENGINEERING INSTITUTE</b>	Zhang, Q. *Sullivan, J. M.	DOD	Image Guided Modeling Techniques for Breast Cancer Detection and Treatment	\$ 107,504
<b>BIOMEDICAL ENG'G</b>	Pins, G. D.	Univ. of Conn. Health Center (NIH)	Multiphoton Biomedical Nano and Microfabrication	\$ 602,519
<b>CHEMISTRY &amp; BIOCHEMISTRY</b>	Connors, R. E.	Ventana Research Corp. (DARPA)	BAA-04-12 Lotus-LADM Based Self Decontaminating Surfaces	\$ 90,633
<b>CHEMICAL ENG'G</b>	Datta, R.	Navy	Logistic Fuel Reforming: A Building Block Approach To Mechanistic Structure and Microkinetics	\$ 128,000
	Dixon, A. G.	Johnson Matthey Catalysts	Catalyst Design and Detailed Modeling for Fixed Bed Reactors Using CFD	\$ 32,964
	Thompson, R. W. *Gnanaraj, J.	NSF	Acquisition of Glove-Box and Maccor Cyclor to Study Inorganic Separators for Lithium Ion Batteries	\$ 122,425
	Thompson, R. W. *Bergendahl, J. A. *Wilcox, J.	USDA	Watershed Protection with Synergistic Adsorption/ Oxidation Treatment of Agricultural Wastewater	\$ 493,518

<b>ELECTRICAL &amp; COMPUTER ENG'G</b>	McNeil, J. A.	NSF	Background Calibration Technique for High Resolution Analog to Digital Converters in Submicron CMOS	\$ 238,904
<b>HUMANITIES &amp; ARTS</b>	Hansen, P.	NSF	Mountaineering and modernity since the 18th Century	\$ 160,494
<b>MATHEMATICAL SCIENCES</b>	Tang, D.	DHHS	MRI Based 3D FSI Models for Human Coronary Plaques	\$ 1,842,887
	Tang, D.	DHHS	Mechanical Image Analysis for Atherosclerotic Plaques	\$ 1,844,454
	Walker, H.	NIST	NIST SURF Program	\$ 13,600
	Larsen, C. J. *Simpson, C	NSF	Immersion in Mechanics and Materials Science at Caltech: Fracture, Fatigue, and Debonding	\$ 99,850
	Yakovlev, V. V.	The Ferrite Co.	Permittivity Reconstruction with Neural Networks - 2	\$ 20,833
<b>MECHANICAL ENG'G.</b>	Tryggvason, G.	NSF	Multiscale Simulations of Multiphase Systems	\$ 302,254
	Rong, K. *Zeng, A.	NSF	Collaborative Research, GOALI: A Technology Hub Approach to Supplier Alliance in Collaborative Manufacturing	\$ 303,588
	Liang, J. *Sisson, R.	NSF	Acquisition of X-Ray Diffraction System for Nanoscale Materials and Metal Processing Research and Education	\$ 139,066
	Fofana, M.	NSF	Stability Switches in Machining Operations	\$ 717,988
<b>SOCIAL SCIENCE &amp; POLICY STUDIES</b>	Pavlov, O. V. *Radzicki, M. *Saeed, K.	NSF	AOC: Institutional, Economic, and Legal Dimensions of Online Media File Sharing	\$ 341,247

**OTHER**

Durgin, W. W.	NSF	Experimental Investigation of Statistical Characteristics of Grid Generated Turbulence by Ultrasonic Travel Time Technique	\$ 215,242
Obien, R. G.	MA Historical Records Advisory Board (National Historical Publications & Records Commission)	Print Worcester: Documenting Worcester's Printing Industry	\$5,000
<b>*CPI</b>		<b>Total</b>	<b>\$ 8,540,770</b>