

## Report of Proposals

For the Month of July 2000

<u>Department</u>	<u>Investigator</u>	<u>Sponsor</u>	<u>Title</u>	<u>Amount</u>
BIOLOGY & BIOTECHNOLOGY	Bagshaw, J.C. *DiIorio, A.A.	NSF	Synthetic Genes for Neuropeptide Hormones	\$241,704
	Robakiewicz, P.E.	EPA	Invasion by the Exotic Mosquito Aedes Albopictus: Oviposition Effects on a Native Aedes Species	\$385,421
CIVIL & ENVIRONMENTAL ENGINEERING	Bergendahl, J.	EPA	Effect of Hydrogeology and Water Quality on Inorganic and Protozoan Particle Mobilization in Riverbank Filtration	\$518,632
	Mallick, R.B.	NSF	Career: Understanding the Effect of Materials and Mix Properties on Long-term Performance of Full Depth Reclamation Mixes	\$375,000
	Mallick, R.B.	Univ. of New Hampshire	Development of a Rational and Practical Mix Design System for Full Depth Reclamation	\$31,519
	Plummer, J.D.	NSF	Career: Rational Strategies for Control of Algae in Drinking Waters	\$375,000
	Ray, M.H.	DOT	Center of Excellence in DYNA3D Analysis	\$99,805
CHEMICAL ENGINEERING	Camesano, T.A.	NSF	Career: Investigation of Bacterial Interaction Forces and Adhesion in Environmental Systems Using Atomic Force Microscopy	\$375,000
	Datta, R. *DiBiasio, D. *MA, Y.H. *Clements, K.A.	NSF	Integrative Graduate Education and Research Traineeship (IGERT) in Fuel Cells	\$2,697,000
	DiBiasio, D.	NSF	The Role of Information Technology in Student	\$9,961

			Learning	
COMPUTER SCIENCE	Claypool, M.L.	NSF	Career: Router Support for Fair, Smooth Multimedia Networking	\$598,151
	Cruz, I.F.	University of Wisconsin	Integrating Metadata Development, XML, and DBMS Search and Query Techniques in WLIS	\$233,728
	Cruz, I.F.	National Imagery and Mapping Agency	Multi-level Tailorable Visualizations for Decision Support in a Distributed Information Environment	\$221,721
	Fisler, K.	NSF	Career: Exploring the Computational Efficacy of Timing Diagrams in Computer-aided Verification	\$774,032
	Rundensteiner, E.A.	NSF	NYI: Object-oriented Database Tools for Supporting Complex Evolutionary Software Systems	\$6,000
	Stevens, M.R.	NSF	Career: Image Based Scene Interpretation	\$793,394
	Ward, M.O. *Gennert, M.A. *Rundensteiner, E.A.	NASA	Visualization Tools for Knowledge Discovery in Large-scale Space Science Data Sets	\$675,000
	Ward, M.O. *Rundensteiner, E.A.	NSF	Hierarchical Visualization Techniques for Data Mining	\$12,000
ELECTRICAL & COMPUTER ENGINEERING	Makarov, S.	SFE, Berlin	Extension of Finite Element Acoustic Calculations to Medium Frequency Range	\$10,000
	McNeill, J.A.	EG&G Reticon	High Speed Digital Output Camera-on-a-chip	\$5,800
	Whitmal, N.A.	NSF	Career: Research and Education in Real-time Signal Processing for Digital Hearing Aids	\$375,000
FIRE PROTECTION ENGINEERING	Barnett, J.R.	SFPE Educ. & Scientific Fdn.	SFPR Student Research (Lautenberger)	\$10,552

MECHANICAL ENGINEERING	Demetriou, M.A.	NSF	Intelligent Systems Approach for On-line Detection, Isolation and Accomodation of Actuator and Sensor Failures	\$375,000
	Fofana, M.S.	NSF	Career: Bifurcation to Stochastic Chatter Machining	\$375,000
	Rong Y.	Ford Motor Company	Computer-aided Fixture Design Verification	\$50,000
MANAGEMENT	Mistry, J.J.	NSF	Career: Differential Impacts of Information Technology	\$407,075
PHYSICS	Iannacchione, G.S.	NSF	Career; Disorder in Phase Transitions of Complex Fluids Through Frustrated Order	\$496,976
			TOTALS	\$10,528,471
*CPI				



