

**Worcester Polytechnic Institute
Report of Proposals Submitted
June 2006**

Department	PI	Co-PI	Project Title	Sponsor	Total Requested	Cost Sharing
Biology and Biotechnology	Eric Overstom		Digit Regeneration in Mammals	CellThera, Inc.	\$1,249,958.00	\$121,373.00
	Pamela Weathers	Kristin Wobbe	Artemisinin Biosynthesis: Control of Transcription	Department of Health & Human Services	\$206,172.00	\$0.00
	Reeta Prusty		The Secondary Metabolite Indole 3-Acetic Acid Regulates Pathogenesis in <i>C. albicans</i>	Department of Health & Human Services	\$215,593.00	\$29,435.00
Biomedical Engineering	George Pins		Designing Microfabricated Basal Lamina Analogs to Enhance Skin Regeneration	Department of Health & Human Services	\$207,362.00	\$0.00
Chemical Engineering	Jennifer Wilcox	Robert Lindeman, Kristin Wobbe	PROPs for Education and Learning (PROPEL)	National Science Foundation	\$2,304,873.00	\$0.00
	Jennifer Wilcox		Alloy Design fo Optimal Hydrogen Separation	Army Research Office	\$149,588.00	\$25,092.00
	Susan Zhou		Electrokinetically Controlled Rapid DNA Hybridization Detection	Department of Health & Human Services	\$198,020.00	\$0.00
	Terri Comesano	Christopher Brown	Correlation of Material Nanoscale Roughness With Bacterial Adhesion	Defense Threat Reduction Agency	\$584,502.00	\$0.00
	Yi Hua Ma		Ultra Thin Pa & Pd/Alloy Membranes for Hydrogen Separation and Reaction Applications	SHELL International Exploring & Production, Inc.	\$965,282.00	\$0.00
	Yi Hua Ma	Nikolaos Kazantzis	Composite Pd and Pd Alloy Porous Stainless Steel Membranes for Hydrogen Separation and Process Intensification	Department of Energy	\$1,249,921.00	\$346,695.00
Chemistry and Biochemistry	Venkat Thalladi		Exploring the Role of Synthetic Surfaces on Polymorph Selection in Parmaceutical Drugs	Department of Health & Human Services	\$212,559.00	\$0.00
Civil and Environmental Engineering	Malcolm Ray		Analytical Crash Simulation	National Highway Traffic Safety Administration	\$400,000.00	\$0.00
Computer Science	Neil Heffernan	Daniel Dougherty, Murali Mani	CI-TEAM Implementation Project - EASEL: An Open-Content, Web-Delivered, Intelligent Tutoring System for Cyberinfrastructure	National Science Foundation	\$980,236.00	\$0.00

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Electrical and Computer Eng'g.	John McNeill		Device Damage During Electrical Test	Teradyne, Inc.	\$953.00	
	Berk Sunar		Development of Hardware True Random Number Generator	National Security Research Institute	\$54,986.00	\$0.00
	Brian King		Graduate Student Support, Curtis Colonero, Lincoln Scholars Program	Massachusetts Institute of Technology	\$8,469.00	\$0.00
	Sergey Makarov	Reinhold Ludwig	Modeling Tool for a Cascaded Lossy Differential Stripline-Based Signaling Network	EMC	\$74,252.00	\$0.00
Fire Protection Eng'g.	Jonathan Barnett		Enhancements to the FDS Software's Utility for Low Energy Fire Modeling	Vision Fire and Security PTY Ltd.	\$40,723.00	\$0.00
Humanities and Arts	Svetlana Nikitina		Empowering Engineering Students to Balance Nature-Technology Concerns Through Specially Designed Environmental Literature Course and Volunteer Activities at the EcoTarium	Lindbergh (Charles A. and Anne Morrow) Foundation	\$10,580.00	\$5,438.00
Mathematical Sciences	Bogdan Vernescu	Joseph Fehribach, Homer Walker, Arthur Heinricher, Balgobin Nandram, Suzanne Weekes	From Applications to Theory: Motivating Students to Study Higher-Level Mathematics	National Science Foundation	\$1,842,277.00	\$408,872.00
Mechanical Engineering	Gretar Tryggvason		Development of 1st Generation Subscale Models / Correlations for the Adapted S-gamma Model	Areva NP Inc.	\$52,942.00	\$0.00
	Kenneth Stafford		The Design and Implementation of a 2007 DARPA Urban Challenge Competitor	Defense Advanced Research Projects Agency	\$852,062.00	\$0.00
	William Durgin	Yiming Rong	Certification of the COTS Engine and Naturalistic Flight Deck Systems for the Next Generation of Small Aircraft	NextTechnologies International Corporation	\$180,376.00	\$2,964.00
Metal Processing Institute	Qingyue Pan	Diran Apelian	High Integrity Magnesium Automotive Castings	United States Automotive Materials Partnership	\$112,500.00	\$100,000.00
Total June 2006 (24 Proposals)					\$12,154,186.00	\$1,039,869.00