

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

Department	PI	Co-PI	Project Title	Sponsor	Amount Requested	Cost Sharing
Bioengineering Institute	Peder Pedersen	Cheryl Merritt	TATRC: Wireless Sensor Communications Integration Field Evaluation	Army Research Office	\$44,366	0
Biomedical Engineering	Christopher Sotak		GAANN Support for the WPI/UMMS Joint Ph.D. Program in Biomedical Engineering and Medical Physics	Department of Education	\$796,057.00	\$162,697.00
Chemical Engineering	Ilie Fishtik	Ravindra Datta	Reaction Route Networks in Quantitative Metabolomics	Department of Health & Human Services	\$1,062,873.00	\$0.00
	Jennifer Wilcox		Heterogeneous Reactivity of Trace Elements in Combustion Flue Gases	American Chemical Society - Petroleum Research Fund	\$40,000.00	\$10,633.00
Chemistry and Biochemistry	Venkat Thalladi		Materials World Network: Control of Crystal Nucleation and Polymorphism Using Modulated Micro- and Nanoscale Environments	National Science Foundation	\$274,736.00	\$0.00
Civil and Environmental Engineering	Malcolm Ray		Development of Verification and Validation Procedures for Computer Simulation Used in Roadside Safety Applications	National Cooperative Highway Research Program	\$300,000.00	\$0.00
Computer Science	Neil Heffernan		Scaling Up A Web-Based Formative Assessment System: Testing the Replicability of Deploying ASSISTment Beyond Its "Home Town"	Massachusetts Technology Transfer Center	\$39,269.00	\$0.00
	Elke Rundensteiner	John Woycheese	III-COR: Continuous Event Detection and Trend Tracking Services	National Science Foundation	\$756,604.00	\$0.00
	Emmanuel Agu	Robert Lindeman	ENCORE: Energy-Conscious Rendering for Mobile Devices	National Science Foundation	\$499,549.00	\$0.00
Electrical and Computer Eng'g.	Peder Pedersen	James Duckworth	Real-Time Troop Physiological Status Monitoring System Using a Common Wireless Network	Army Research Office	\$159,986.00	\$0.00
	William Michalson	James Matthews	Radio Repeater Tests for WLAN Interoperability Test Beds	Massachusetts Technology Transfer Center	\$35,511.00	\$0.00

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	Ximing Huang	Declan DePaor, Reinhold Ludwig, John Sullivan, Dalin Tang	CRI: IAD: Synergistic Research Platform for High Performance Reconfigurable Computing and Benchmark Applications	National Science Foundation	\$273,717.00	\$0.00
Humanities and Arts	H. J. Manzari		Caribbean Voices: A Digital Archive of Images, Texts and Music from the Costa Rican Caribbean	National Endowment for the Humanities/Natl. Fndn. on the Arts & Humanities	\$29,967.00	\$15,403.00
	Svetlana Nikitina		Enacting and Embodying Concepts in Humanities Courses	Spencer Foundation	\$39,998.00	\$20,559.00
Management	Arthur Gerstenfeld	Creighton Peet, Raphael Njoroge, Susan Vernon- Gerstenfeld	American Competitiveness: US -Africa Link	Department of Education	\$99,344.00	\$53,906.00
Mathematical Sciences	Darko Volkov		Reconstruction of Faults from Surface Displacements	National Science Foundation	\$83,557.00	\$0.00
	Jason Scot Williford		Algebraically and Geometrically Defined Graphs with Applications to Extremal Graph Theory	National Security Agency	\$29,935.00	\$9,475.00
	Joseph Fehribach		Vector Spaces and Kirchoff Graphs	National Science Foundation	\$87,600.00	\$0.00
Mechanical Engineering	Gretar Tryggvason		An Experimental Investigation of a Flexible Flap to Support the Validation of Computational Modeling of Parachutes and Airdrop Systems	Natick Soldier Center	\$64,940.00	\$0.00
	Michael Demetriou		Multistage Design Optimization of Elastic Systems	National Science Foundation	\$199,294.00	\$0.00
	Nikos Gatsonis	Nancy Burnham, Grant McGimpsey, Venkat Thalladi	Active Fluidic Nanodevices with Nanopatterned Surfaces of Optically-Controlled Wettability	National Aeronautics & Space Administration	\$1,397,892.00	\$0.00
	Rick Sisson		Thermal Process Optimization for Aerospace Gears Phase I	Sikorsky Aircraft	\$599,842.00	\$0.00
Minority Affairs	Calvin Hill	Lance Schachterle	Northeast LSAMP Phase II	University of Massachusetts Amherst	\$372,000.00	\$385,486.00
Physics	Germano Iannacchione		Quenched Random Disorder in Soft Condensed Matter	National Science Foundation	\$245,793.00	\$0.00
Total (24 Proposals)					\$7,532,830.00	\$658,159.00