

**Worcester Polytechnic Institute**  
**Report of Awards Received**  
**September 2005**

Department	PI	Co-PI	Project Title	Sponsor	Proposal Amount	Cost Sharing
Academic Affairs	Martha Cyr		Collaborative Research: A Comprehensive Pathway for K-Gray Engineering Education	University of California, Berkeley	66,468	20,101
Chemical Engineering	Robert Thompson	Joseph Gnanaraj	New Electrolytes for Enhanced Low Temperature Li-ion Battery Performance	Yardney Technical Products, Inc.	24,800	8,487
Civil and Environmental Engineering	Malcolm Ray		Establishment of a Center for Human Impact Protection System	National Highway Traffic Safety Administration	400,000	0
	Rajib Mallick		Analysis of Pavement Response Data and Use of Nondestructive Testing for Improving Pavement Design	Maine Department of Transportation	154,893	0
Computer Science	Carolina Ruiz		Oncological Data Analysis	University of Massachusetts Worcester	29,474	7,411
	Elke Rundensteiner	Murali Mani	Automaton Meets Algebra: Towards an XML-Centric Stream Query System	National Science Foundation	360,000	0
Electrical and Computer Eng'g.	Brian King	John McNeill	Graduate Student Support, Curtis Colonero, Lincoln Scholars Program	Massachusetts Institute of Technology	10,235	0
	John Orr	James Duckworth Sergey Makarov David Cyganski William Michalson	Precision Indoor/Outdoor Personnel Location System III	Department of Justice	1,973,286	0
	Peder Pedersen		Development and Testing of Wireless Wearable Ultrasound Scanner	Department of the Army	178,957	0
Fire Protection Eng'g.	Jonathan Barnett		Fire Simulator Test Plan	Battelle	3,200	0
Mathematical Sciences	Bal gobin Nandram		NCHS Nonresponse in Small Area Estimation	Department of Health & Human Services	45,825	0
	Roger Lui		Dynamics of Actin in Normal and Transformed Cells	University of Massachusetts Worcester	24,735	0
	Vadim Yakovlev		Advanced Computer Models for Microwave Power Engineering	The Ferrite CO, Inc.	22,502	0
Mechanical Engineering	Daniel Backman		Development of an Accelerated Insertion of Material (AIM) System for an Aluminum 6061 Forged Head Application	Naval Surface Warfare Center	22,874	0
	Hamid Johari		High Fidelity Experimentation for Validation and Verification of Computational Modeling of Airdrop Systems	Department of Defense	224,456	0
	Nikos Gatsonis		Modeling of the Advanced Micro Pulsed Plasma Thruster	Busek, Co.	76,543	0
Physics	John Norbury		Hadron and Electromagnetic Cross Sections and Transport	National Aeronautics & Space Administration	97,000	0
Totals for September 2005 (17 Awards)					3,715,248	55,797