

**Worcester Polytechnic Institute
Report of Awards Received
April 2006**

Department	PI	Co-PI	Project Title	Sponsor	Awarded	Cost Sharing
Chemistry and Biochemistry	John MacDonald		Design of Porous and Complex Crystalline Materials	Army	\$159,211	\$0
Chemical Engineering	Robert Thompson	Joseph Gnanaraj	Advanced Battery Materials	Yardney Technical Products	\$15,000	\$4,198
Computer Science	Elke Rundensteiner	Murali Mani	Automation Meets Algebra: Towards an XML-Centric Stream Query System	National Science Foundation	\$12,000	\$0
	Matthew Ward	Elke Rundensteiner	Quality-Aware Visual Exploration Tools	National Science Foundation	\$12,000	\$0
	Matthew Ward	Neil Heffernan, Emmanuel Agu, George Heineman	GAANN: Fellowships in Computer Science to Support the Learning Sciences and Security	U.S. Dept. of Education	\$211,120	\$52,780
Mathematical Science	Christopher Larsen		Variational Methods for Material Damage: Fracture, Fatigue, and Debonding	National Science Foundation	\$2,400	\$0
Mechanical Engineering	Diran Apelian	Daniel Backman	Planning Study for an Aerospace Materials Consortia	Air Force Research Lab	\$19,990	\$10,275
	Diran Apelian	Daniel Backman	Optoelectronic Sensing of Liquid Metal Composition	wTe Corporation	\$67,640	\$0
	John Blandino		Advanced Lithium-Fed Applied-Field Magnetoplasmdynamic Thruster	NASA	\$27,783	\$0
	John Blandino	Michael Demetriou, Nikolaos Gatsonis	Analysis of Drag-Free Spacecraft Motion and Control in Low Earth Orbit	NASA	\$30,000	\$0
	Hamid Johari		Modification of Turbulent Non-Premixed Flames	NASA	\$52,114	\$0
	Jianyu Liang		Innovative Hierarchical Nanomanufacturing of Biomimetic Carbon Nanostructures by Sintering	Society of Manufacturing Engineers	\$15,000	\$7,709
	Yiming Rong		Fundamental Research on Grinding Technology	Saint-Gobain Abrasives	\$7,565	\$3,888
	Yiming Rong	William Durgin	US -China IRES: International Establishment of Engineering Project Center in China	National Science Foundation	\$149,904	\$0
Physics	John Norbury		Electromagnetic Nucleus-Nucleus Collision Cross Sections	NASA	\$24,000	\$17,784
Totals for April 2006 (15 awards)					\$805,165	\$96,634