

**Worcester Polytechnic Institute  
Report of Proposals Submitted  
November 2007**

Department	Principal Investigator	Co-PI	Project Title	WPI Sponsor	Prime Sponsor (if Sub)	Program Type	Requested	Cost Sharing	Proposal #
Bioengineering Institute	Lambert, C.		A Method for the Integration of Neurons with Synthetic Substrates	NIH		Research	800,350	0	<a href="#">8083</a>
Subtotal: 1							800,350	0	
Biology and Biotechnology	Weathers, P.		A Mist Bioreactor System for the Production of Pharmaceutical and Therapeutic Plant-Derived Compounds	PhytoTechnology Laboratories, LLC	NIH	Research	37,382	0	<a href="#">8081</a>
	Weathers, P.	Towler, M.	Proposal to Develop an Algal Bioreactor Using the Freeman Reactor System	Freeman, LLC		Research	29,525	0	<a href="#">8077</a>
Subtotal: 2							66,907	0	
Biomedical Engineering	Billiar, K.		Mechanobiology of Lung Fibrosis	Harvard School of Public Health	NIH	Research	543,409	0	<a href="#">8076</a>
	Gaudette, G.	Rolle, M., Pins, G.	Scaffold Based Localization of Stem Cells for Regenerative Therapy	Massachusetts Technology Transfer Center		Research	40,000	0	<a href="#">8091</a>
Subtotal: 2	Count: 2						583,409	0	
Chemical Engineering	Datta, R.		Theoretical and Experimental Characterization of the Liquid Tin Anode-Solid Fuel Cell (LTA-SOFC)	ONR		Research	300,000	12,869	<a href="#">8084</a>
	Dixon, A.		Connecting Catalytic Chemistry to Eternal Particle Conditions via Computational Fluid Dynamics: Supplement for Underrepresented Minority Research (SUMR)	ACS		Education/ Training	5,000	0	<a href="#">05096s1</a>
	Zhou, S.	Mello, N., DiBiasio, D.	International Research and Education: Planning Visits to Shanghai Jiao Tong University (SJTU), People's Republic of China	NSF		Education/ Training	10,890	0	<a href="#">8078</a>
Subtotal: 3							315,890	12,869	
Civil and Environmental Engineering	Mallick, R.	Tao, M.	Warm Mix Asphalt Pavement (WMA) with Recycled Asphalt Prevention (RAP): Laboratory and Testing Study	Maine Department of Transportation		Research	298,687	0	<a href="#">8085</a>
	Tao, M.		Develop an Effective Modeling Procedure for Incorporating Particle Breakage of Granular Materials.	ACS		Research	49,438	15,471	<a href="#">8082</a>
Subtotal: 2	Count: 2						348,125	15,471	
Computer Science	Beck, J.		Determining Effective Fluency Interventions from a Fine-Grained Longitudinal Database	DED		Research	343,543	0	<a href="#">8088</a>
	Fisler, K.	Dougherty, D.	Distributed Policy Execution	Cisco Systems, Inc.		Research	21,041	9,458	<a href="#">8093</a>
	Gobert, J.	DePaor, D., Heffernan, N.	GEO ASSISTments	NSF		Research	149,781	0	<a href="#">8090</a>

**Worcester Polytechnic Institute  
Report of Proposals Submitted  
November 2007**

	Gobert, J.	Beck, J., Heffernan, N.	Assistments Meets Science Learning	DED		Research	1,429,336	0	<a href="#">8094</a>
Subtotal: 4							1,943,701	9,458	
Mathematical Sciences	Larsen, C.		Damage and Fracture Evolution	NSF		Research	303,914	0	<a href="#">8086</a>
	Mosco, U.	Vernescu, B.	Transmission Problems with Large Surfaces	NSF		Research	372,331	0	<a href="#">8079</a>
Subtotal: 2							676,245	0	
Mechanical Engineering	Hoffman, A.	Ault, H.	WPI Objectives for High School EPICS Study	Purdue University	Intel Corporation	Other	13,050	0	<a href="#">8092</a>
Subtotal: 1							13,050	0	
Physics	Garcia, R.	Iannacchione, G.	Experimental Verification of Quenched Random Disorder Effects on Liquid Crystals in 2D	NSF		Research	299,424	0	<a href="#">8080</a>
	Iannacchione, G.		Calorimetric Study of Solvent Dilluted Liquid Crystal Phase Transitions	ACS		Research	150,000	42,291	<a href="#">8087</a>
	Iannacchione, G.		Calorimetric Study of Quenched Random Disorder in Soft-Condensed Matter	NSF		Research	239,660	0	<a href="#">8089</a>
Subtotal: 3							689,084	42,291	
<b>Total: 20</b>							<b>5,436,761</b>	<b>80,089</b>	



