

Worcester Polytechnic Institute  
Report of Proposals Submitted  
May 2009

Department	Principal Investigator	Co-PI	Project Title	Sponsor	Prime Sponsor (if Sub)	Program Type	Amount Requested	Cost Sharing	Voluntary Uncommitted CS	Proposal #
Biology and Biotechnology	Dominko, T.	Page, R.	De-Differentiating Adult Human Fibroblasts into Stem-Like Cells Using Defined Conditions	NIH		Research	1,667,120	0		<a href="#">08074cr1</a>
	Dominko, T.	Holmes, W., Page, R., Rolle, M., Camesano, T., Pins, G.	Enhanced Wound Healing	NIH		Research	2,358,287	0	31,937	<a href="#">9253</a>
	Weathers, P.		Artemisinin Biosynthesis: Control of Transcription	NIH		Research	74,030	0	9,332	<a href="#">06199s1</a>
	Weathers, P.		Novel Production and Delivery of Artemisinin as an ACT to Treat Malaria and Other Neglected Tropical Diseases	NIH		Research	875,263	0	19,131	<a href="#">9232</a>
	Weathers, P.		Novel Production and Delivery of Artemisinin as an ACT to Treat Malaria	Gates (Bill and Melinda) Foundation		Research	100,000	38,275		<a href="#">9249</a>
<b>Subtotal: 5</b>						<b>5,074,700</b>	<b>38,275</b>	<b>60,400</b>		
Biomedical Engineering	Gaudette, G.		Microthread Based Delivery of Human Mesenchymal Stem Cells to Infarcted Hearts	NIH		Research	197,602	0		<a href="#">09061s2</a>
	Gaudette, G.		Stem Cell Mediated Cardiac Repair	NIH		Research	161,733	0	18,302	<a href="#">9239</a>
	Gielo-Periczak, K.	Billiar, K.	CCLI: Lecture, Lab Experiment, and Simulation (LLES): Musculoskeletal Modeling in Biomedical Engineering	NSF		Research	199,338	0		<a href="#">9257</a>
	Pins, G.		Designing Microfabricated Basal Lamina Analogs to Enhance Skin Regeneration	NIH		Research	8,828	0		<a href="#">06201s1</a>
<b>Subtotal: 4</b>						<b>567,501</b>	<b>0</b>	<b>18,302</b>		
Chemical Engineering	Camesano, T.	Liang, J.	CCLI: Developing Grand Challenges Nanobiotechnology Laboratory Experience for Sophomores	NSF		Research	199,433	0	17,987	<a href="#">9242</a>
	Camesano, T.		DNA Protection from Oxidative Stress Response by DPK	Tufts University	NIH	Research	56,059	0	9,565	<a href="#">9260</a>
<b>Subtotal: 2</b>						<b>255,492</b>	<b>0</b>	<b>27,552</b>		
Chemistry and Biochemistry	Arguello, J.		Role of Rhizobium Metal Transport Atpases In The Symbiosis With Legumes	DOA		Research	399,880	74,842		<a href="#">9228</a>
<b>Subtotal: 1</b>						<b>399,880</b>	<b>74,842</b>	<b>0</b>		
Civil and Environmental Engineering	Mallick, R.	Tao, M.	CCLI: A Collaborative Effort to Integrate Non Destructive Testing and Evaluation in the Undergraduate Civil Engineering Curriculum	NSF		Research	192,583	0		<a href="#">9259</a>
	Plummer, J.		Arsenic Treatability Study	Northeast Water Solutions, Inc.		Research	71,462	0	8,928	<a href="#">9264</a>
	Plummer, J.		Assessment of Torque Teno Virus as a Candidate Viral Pathogen Indicator in Drinking Water	Water Research Foundation		Research	150,000	0		<a href="#">9229</a>
<b>Subtotal: 3</b>						<b>414,045</b>	<b>0</b>	<b>8,928</b>		
Computer Science	Beck, J.	Baker, R., Heffernan, N.	Assessing NSDL Content's Ability to Assist Learners	NSF		Research	495,549	0	27,660	<a href="#">9226</a>
	Gennert, M.	Fischer, G., Padir, T., Demetry, C., Michalson, W.	A National Model Robotics Curriculum	NSF		Research	199,996	0	18,764	<a href="#">9250</a>
	Hofri, M.	Selkow, S., Heffernan, N.	II: Computer Tutoring Support for the Integration of Mathematical and Algorithmic Thinking	NSF		Research	791,541	0		<a href="#">9240</a>
	Ward, M.	Gobert, J., Rundensteiner, E.	CDI-type II: Interactive Visual Support for Reasoning, Discovery, and Forecasting in Complex Systems	NSF		Research	1,960,573	0	160,890	<a href="#">9248</a>
	Claypool, M.		An Interactive Web-based Intervention to Change Chlamydia Screening Behavior	NIH		Research	138,956		17,978	<a href="#">9263</a>
<b>Subtotal: 5</b>						<b>3,586,615</b>	<b>0</b>	<b>225,292</b>		
Electrical and Computer Eng'g.	Cyganski, D.	Duckworth, J.	The Personal Safety System	Foster Miller, Inc.	DHS	Research	592,786	0	35,712	<a href="#">9236</a>

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	Huang, X.		SmartCell: Replacing FPGA with Low Power Coarse-Grained Reconfigurable Architecture for Embedded Data Processing	DARPA		Research	250,000	0	18,664	<a href="#">9231</a>
	Huang, X.		REU: A Universal Cooperative Communication System-On-a-Chip	NSF		Education/ Training	6,000	0		<a href="#">07142s1</a>
	Ludwig, R.		Combiner Strategy for RF Power Amplifiers	Coherent, Inc.		Research	51,852	0		<a href="#">9234</a>
	Makarov, S.	Looft, F., Ludwig, R.	ECEM-Shop-An Interactive Project Supporting Semiconductor Curriculum for ECE Non-Major Classes (ME,CE, BME)	NSF		Research	190,009		18,302	<a href="#">9262</a>
<b>Subtotal: 5</b>							<b>1,090,647</b>	<b>0</b>	<b>72,678</b>	
Fire Protection Eng'g.	Meacham, B.	Dembsey, N.	Investigation of Post-Earthquake Fire Performance of Buildings	NIST		Research	378,179	0	27,266	<a href="#">9258</a>
	Rangwala, A.		Dust Explosion Hazard Assessment Methodology	Fire Protection Research Foundation		Research	60,000	0	8,928	<a href="#">9251</a>
	Rangwala, A.		An Analysis of Fire Performance Ratings of Large Scale Storage Commodities	University of California, San Diego	NIST	Research	139,152	0	9,151	<a href="#">9252</a>
<b>Subtotal: 3</b>							<b>577,331</b>	<b>0</b>	<b>45,345</b>	
Interdisciplinary & Global Studies	Carrera, F.		EU/US Atlantis Program	University of California, Berkeley	DOEd	Education/ Training	17,244	0		<a href="#">9235</a>
	Vaz, R.		The IPP Community: Promoting Innovative Practices and Pedagogies in Engineering Education	NSF		Research	197,964	0		<a href="#">9247</a>
<b>Subtotal: 2</b>							<b>215,208</b>	<b>0</b>	<b>0</b>	
Mathematical Sciences	Humi, M.		CCLI: Curriculum and Laboratory Innovations in a Course on Differential Equations	NSF		Research	199,496	0	0	9261
<b>Subtotal: 1</b>							<b>199,496</b>	<b>0</b>	<b>0</b>	
Management	Zeng, A.	Rudolph, J., Rong, Y.	U.S. China Link Initiative at WPI	DOEd		Education/ Training	185,755	101,265		<a href="#">9238</a>
<b>Subtotal: 1</b>							<b>185,755</b>	<b>101,265</b>	<b>0</b>	
Mechanical Engineering	Apelian, D.		HyperCAST Program	North American Die Casting Association	DOE	Research	2,204,950	0		<a href="#">9254</a>
	Bar-On, I.	Strong, D., Johnson, S.	New England Healthcare Engineering Partnership (NEHCEP)	VA New England Healthcare System	Dept. of Veterans Affairs	Research	667,795	0	17,154	<a href="#">9245</a>
	Brown, C.		Promoting Diversity and Visability for Production Engineering Research at the CIRP 2009 General Assembly	NSF		Education/ Training	39,150	0		<a href="#">9246</a>
	Demetry, C.	Mello, N., DiBiasio, D.	Collaborative Research CCLI: CULTURES: Culture Understanding & Learning Toolkit for Use in Real-world Engagement of STEM Students	NSF		Research	155,526	0		<a href="#">9243</a>
	Fischer, G.		Enabling Technologies for MRI-Guided Prostate Interventions	Brigham and Women's Hospital	NIH	Research	139,456	0	17,987	<a href="#">9255</a>
	Fischer, G.		Enabling Technologies for MRI-Guided Prostate Interventions	Brigham and Women's Hospital	NIH	Equipment	34,000	0		<a href="#">9256</a>
	Fischer, G.		MRI-Guided Deep Brain Stimulation with Robotic Assistance	NIH		Research	995,851	0	35,401	<a href="#">9233</a>
	Liang, J.	Camesano, T., Zeng, A., Justo, S.	NUE: Advancing Nanotechnology Education for Social, Economic and Environmental Sustainability	NSF		Research	199,307	0	25,573	<a href="#">9230</a>
	Sullivan, J.		Medical Image Visualization and Analysis Toolbox	NIH		Research	163,438	0	8,928	<a href="#">9237</a>
<b>Subtotal: 9</b>							<b>4,599,473</b>	<b>0</b>	<b>105,043</b>	
Physics	Ram-Moham, R.		Collaborative Research: Nanoscopic Metal-Semiconductor Hybrid Elements and Arrays	NSF		Education/ Training	46,250	0	10,369	<a href="#">07162s1</a>
<b>Subtotal: 1</b>							<b>46,250</b>	<b>0</b>	<b>10,369</b>	
<b>Total: 42</b>							<b>17,212,393</b>	<b>214,382</b>	<b>573,909</b>	

**Worcester Polytechnic Institute  
Proposals Submitted by Department (FY 2009)**

Date: **May 2009**

Fiscal Year: **2008-2009**

	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09	Cumulative
<b>Biology and Biotechnology</b>	4	4		3	2	4		6	2		5		30
	3,962,154	1,472,774		5,821,862	16,402	196,923		6,892,954	702,176		5,074,700		24,139,945
<b>Biomedical Engineering</b>	2		2	1		1	2	1	1	1	4		15
	579,137		420,394	215,960		531,276	62,341	5,000	29,974	18,568	567,501		2,430,151
<b>Bioengineering Institute</b>		1		2						1			4
		150,000		894,588						431,344			1,475,932
<b>Civil and Envir Engr</b>	1		2	3	2	1	1	1	4	1	3		19
	139,951		386,053	698,446	204,834	26,953	128,771	174,968	1,500,157	399,935	414,045		4,074,113
<b>Chemistry and Biochemistry</b>	1		1	1	4				2	1	1		11
	786,119		264,205	100,000	501,565				449,506	284,071	399,880		2,785,346
<b>Chemical Engineering</b>			1	1	1	2	1	2	3	2	2		15
			6,114	19,007,473	5,000	74,092	198,870	38,116	133,805	44,200	255,492		19,763,162
<b>Computer Science</b>	2	2	2	4	3	6	2	3	1	4	5		34
	637,144	659,904	103,394	5,564,501	634,933	2,048,867	392,415	1,384,115	69,814	1,504,440	3,586,615		16,586,142
<b>Electrical and Computer Engr</b>	5	3	5	4	3	5	2	3	4	2	5		41
	1,773,802	415,718	1,100,678	862,504	905,138	340,113	139,962	764,366	1,458,178	63,675	1,090,647		8,914,781
<b>Fire Protection Engineering</b>	2	1	4				1	2	1		3		14
	515,135	313,261	584,811				570,762	375,395	195,827		577,331		3,132,522
<b>Humanities and Arts</b>	1	1		1									3
	417,540	221,355		215,333									854,228
<b>Interdisciplinary and Global</b>	1	3					2	1			2		9
	6,500	376,678					236,272	86,299			215,208		920,957
<b>Mathematical Science</b>			1	4	3	1	1	2	2	1	1		16
			265,000	2,744,300	217,773	408,590	99,523	1,959,819	173,434	295,268	199,496		6,363,203
<b>Mechanical Engineering</b>		6	15	7	2	3	3	3	8	2	8		57
		3,087,303	2,470,816	2,278,277	383,522	598,653	774,891	1,135,112	3,245,815	504,054	2,394,523		16,872,966
<b>Management</b>							1				1		2
							50,000				185,755		235,755
<b>Social Science &amp; Policy Studies</b>		2								1			3
		252,848								287,568			540,416
<b>Physics</b>	1	1	1		4			1	1		1		10
	275,628	285,366	299,950		823,605			15,430	6,250		46,250		1,752,479
<b>Other</b>	1		2		2				1				6
	9,109		103,852		379,911				18,000				510,872
<b>SUBTOTALS</b>	<b>21</b>	<b>24</b>	<b>36</b>	<b>31</b>	<b>26</b>	<b>23</b>	<b>16</b>	<b>25</b>	<b>30</b>	<b>16</b>	<b>41</b>	<b>0</b>	<b>289</b>
	<b>\$9,102,219</b>	<b>\$7,235,207</b>	<b>\$6,005,267</b>	<b>\$38,403,244</b>	<b>\$4,072,683</b>	<b>\$4,225,467</b>	<b>\$2,653,807</b>	<b>\$12,831,574</b>	<b>\$7,982,936</b>	<b>\$3,833,123</b>	<b>\$15,007,443</b>	<b>\$0</b>	<b>\$111,352,970</b>
<b>Add: Earmarks</b>											1		1
											2,204,950		2,204,950
<b>TOTALS</b>	<b>21</b>	<b>24</b>	<b>36</b>	<b>31</b>	<b>26</b>	<b>23</b>	<b>16</b>	<b>25</b>	<b>30</b>	<b>16</b>	<b>42</b>	<b>0</b>	<b>290</b>
	<b>\$9,102,219</b>	<b>\$7,235,207</b>	<b>\$6,005,267</b>	<b>\$38,403,244</b>	<b>\$4,072,683</b>	<b>\$4,225,467</b>	<b>\$2,653,807</b>	<b>\$12,831,574</b>	<b>\$7,982,936</b>	<b>\$3,833,123</b>	<b>\$17,212,393</b>	<b>\$0</b>	<b>\$113,557,920</b>

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**Worcester Polytechnic Institute  
Proposals Submitted by Department (FY 2008)**

Date: **May 2009**

Fiscal Year: **2007-2008**

	Jul-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Cumulative
<b>Biology and Biotechnology</b>	1		3	2	2		4	2	3	1	1		19
	33,272		446,967	889,027	66,907		3,962,154	302,520	267,789	30,029	640,952		6,639,617
<b>Biomedical Engineering</b>	2	1	1	2	2		2	1	1	3			15
	885,949	16,518	296,274	411,660	583,409		579,137	2,000	235,800	241,399			3,252,146
<b>Bioengineering Institute</b>		1	1	1	1				1				5
		81,944	149,971	711,868	800,350				25,000				1,769,133
<b>Civil and Envir Engr</b>			3	2	2	1	1	5	1	2	3		20
			443,391	236,275	348,125	74,916	139,951	943,450	243,132	365,809	216,337		3,011,386
<b>Chemistry and Biochemistry</b>	1	1					1				2		5
	1,156,495	60,005					786,119				846,754		2,849,373
<b>Chemical Engineering</b>	4			2	3			6	1		3		19
	1,369,614			1,507,787	315,890			1,503,718	33,514		453,359		5,183,882
<b>Computer Science</b>	4	1	2	1	4	8	2		5	1	4		32
	2,921,249	98,247	491,945	5,708	1,943,701	3,551,023	637,144		12,761,540	1,499,850	1,060,535		24,970,942
<b>Electrical and Computer Engr</b>	2	1	2	1		1	5	1	9		2		24
	854,359	44,912	109,127	414,697		328,714	1,773,802	375,805	2,259,278		115,229		6,275,923
<b>Fire Protection Engineering</b>	1	1	1	1			2	2	1		1		10
	479,095	599,640	19,867	179,467			515,135	146,386	47,822		1,533,121		3,520,533
<b>Humanities and Arts</b>							1						1
							417,540						417,540
<b>Interdisciplinary and Global</b>		2					1				1		4
		166,573					6,500				149,830		322,903
<b>Mathematical Science</b>	2		1	2	2	1		2		1	1		12
	1,476,903		62,712	957,434	676,245	296,715		1,076,325		599,399	759,434		5,905,167
<b>Mechanical Engineering</b>	7	1	6	7	1	1		4	7	3	6		43
	2,489,649	73,643	1,032,447	2,660,889	13,050	334,152		1,062,162	772,407	2,531,471	1,594,635		12,564,505
<b>Management</b>			1	2				1			1		5
			69,983	444,991				749,985			50,000		1,314,959
<b>Social Science &amp; Policy Studies</b>			1										1
			50,912										50,912
<b>Physics</b>		1		2	3	1	1	4	1	1			14
		89,998		560,764	689,084	512,179	275,628	646,050	31,168	11,250			2,816,121
<b>Other</b>				1			1		1	1			4
				14,000			9,109		30,000	10,000			63,109
<b>SUBTOTALS</b>	<b>24</b>	<b>10</b>	<b>22</b>	<b>26</b>	<b>20</b>	<b>13</b>	<b>21</b>	<b>28</b>	<b>31</b>	<b>13</b>	<b>25</b>	<b>0</b>	<b>233</b>
	<b>\$11,666,585</b>	<b>\$1,231,480</b>	<b>\$3,173,596</b>	<b>\$8,994,567</b>	<b>\$5,436,761</b>	<b>\$5,097,699</b>	<b>\$9,102,219</b>	<b>\$6,808,401</b>	<b>\$16,707,450</b>	<b>\$5,289,207</b>	<b>\$7,420,186</b>	<b>\$0</b>	<b>\$80,928,151</b>
<b>Add: Earmarks</b>									2				2
									1,708,000				1,708,000
<b>TOTALS</b>	<b>24</b>	<b>10</b>	<b>22</b>	<b>26</b>	<b>20</b>	<b>13</b>	<b>21</b>	<b>28</b>	<b>33</b>	<b>13</b>	<b>25</b>	<b>0</b>	<b>235</b>
	<b>\$11,666,585</b>	<b>\$1,231,480</b>	<b>\$3,173,596</b>	<b>\$8,994,567</b>	<b>\$5,436,761</b>	<b>\$5,097,699</b>	<b>\$9,102,219</b>	<b>\$6,808,401</b>	<b>\$18,415,450</b>	<b>\$5,289,207</b>	<b>\$7,420,186</b>	<b>\$0</b>	<b>\$82,636,151</b>

06/09/09 kr

6/10/2009

**Worcester Polytechnic Institute**  
**Proposals Submitted by Department (12 Month Report Through May 2009)**


Date: **May 2009**

Fiscal Year: **2008-2009**

06/09/09 kr

	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Cumulative
<b>Biology and Biotechnology</b>	4	4	4		3	2	4		6	2		5	34
	944,176	3,962,154	1,472,774		5,821,862	16,402	196,923		6,892,954	702,176		5,074,700	25,084,121
<b>Biomedical Engineering</b>	6	2		2	1		1	2	1	1	1	4	21
	864,223	579,137		420,394	215,960		531,276	62,341	5,000	29,974	18,568	567,501	3,294,374
<b>Bioengineering Institute</b>			1		2						1		4
			150,000		894,588						431,344		1,475,932
<b>Civil and Envir Engr</b>	1	1		2	3	2	1	1	1	4	1	3	20
	26,953	139,951		386,053	698,446	204,834	26,953	128,771	174,968	1,500,157	399,935	414,045	4,101,066
<b>Chemistry and Biochemistry</b>	3	1		1	1	4				2	1	1	14
	2,206,455	786,119		264,205	100,000	501,565				449,506	284,071	399,880	4,991,801
<b>Chemical Engineering</b>	2			1	1	1	2	1	2	3	2	2	17
	479,532			6,114	19,007,473	5,000	74,092	198,870	38,116	133,805	44,200	255,492	20,242,694
<b>Computer Science</b>	3	2	2	2	4	3	6	2	3	1	4	5	37
	1,419,176	637,144	659,904	103,394	5,564,501	634,933	2,048,867	392,415	1,384,115	69,814	1,504,440	3,586,615	18,005,318
<b>Electrical and Computer Engr</b>		5	3	5	4	3	5	2	3	4	2	5	41
		1,773,802	415,718	1,100,678	862,504	905,138	340,113	139,962	764,366	1,458,178	63,675	1,090,647	8,914,781
<b>Fire Protection Engineering</b>		2	1	4				1	2	1		3	14
		515,135	313,261	584,811				570,762	375,395	195,827		577,331	3,132,522
<b>Humanities and Arts</b>		1	1		1								3
		417,540	221,355		215,333								854,228
<b>Interdisciplinary and Global</b>		1	3					2	1			2	9
		6,500	376,678					236,272	86,299			215,208	920,957
<b>Mathematical Science</b>	3			1	4	3	1	1	2	2	1	1	19
	156,116			265,000	2,744,300	217,773	408,590	99,523	1,959,819	173,434	295,268	199,496	6,519,319
<b>Mechanical Engineering</b>	8		6	15	7	2	3	3	3	8	2	8	65
	1,347,305		3,087,303	2,470,816	2,278,277	383,522	598,653	774,891	1,135,112	3,245,815	504,054	2,394,523	18,220,271
<b>Management</b>	1							1				1	3
	40,502							50,000				185,755	276,257
<b>Social Science &amp; Policy Studies</b>			2								1		3
			252,848								287,568		540,416
<b>Physics</b>	2	1	1	1		4			1	1		1	12
	119,870	275,628	285,366	299,950		823,605			15,430	6,250		46,250	1,872,349
<b>Other</b>		1		2		2				1			6
		9,109		103,852		379,911				18,000			510,872
<b>SUBTOTALS</b>	<b>33</b>	<b>21</b>	<b>24</b>	<b>36</b>	<b>31</b>	<b>26</b>	<b>23</b>	<b>16</b>	<b>25</b>	<b>30</b>	<b>16</b>	<b>41</b>	<b>322</b>
	<b>\$7,604,308</b>	<b>\$9,102,219</b>	<b>\$7,235,207</b>	<b>\$6,005,267</b>	<b>\$38,403,244</b>	<b>\$4,072,683</b>	<b>\$4,225,467</b>	<b>\$2,653,807</b>	<b>\$12,831,574</b>	<b>\$7,982,936</b>	<b>\$3,833,123</b>	<b>\$15,007,443</b>	<b>\$118,957,278</b>
<b>Add: Earmarks</b>												1	1
												2,204,950	2,204,950
<b>TOTALS</b>	<b>33</b>	<b>21</b>	<b>24</b>	<b>36</b>	<b>31</b>	<b>26</b>	<b>23</b>	<b>16</b>	<b>25</b>	<b>30</b>	<b>16</b>	<b>42</b>	<b>323</b>
	<b>\$7,604,308</b>	<b>\$9,102,219</b>	<b>\$7,235,207</b>	<b>\$6,005,267</b>	<b>\$38,403,244</b>	<b>\$4,072,683</b>	<b>\$4,225,467</b>	<b>\$2,653,807</b>	<b>\$12,831,574</b>	<b>\$7,982,936</b>	<b>\$3,833,123</b>	<b>\$17,212,393</b>	<b>\$121,162,228</b>

Worcester Polytechnic Institute  
Report of Awards Received  
May 2009

Department	Principal Investigator	Co-PI	Project Title	Sponsor	Prime Sponsor (if Sub)	Amount Awarded	Cost Sharing	Voluntary Uncommitted CS	Award Type	Program Type	Proposal #
Chemical Engineering	Camesano, T.	Billiar, K.	REU Supplement for RET Site: Inquiry-based Bioengineering Research and Design Experiences for Middle-School Teachers	NSF		10,000	0		Supplement	Education/ Training	<a href="#">08003s1</a>
	Ma, Y.	Kazantzis, N.	Composite Pd and Pd Alloy Porous Stainless Steel Membranes for Hydrogen Separation and Process Intensification	DOE		476,469	0		Con't.	Research	<a href="#">6192</a>
Subtotal: 2						486,469	0	0			
Computer Science	Heffernan, N.		CAREER: Learning about Learning	NSF		127,297	67,260		Con't.	Research	<a href="#">5010</a>
	Rich, C.		HCC-Small: Engagement and Collaboration in Human-Robot Interaction	NSF		13,500	0		Supplement	Education/ Training	<a href="#">08097s1</a>
	Wills, C.		Virtual Machines Meet Application Clusters: A Highly Responsive Global Utility Computing Platform for Internet Applications	NSF		8,000	0		Supplement	Education/ Training	<a href="#">06103s1</a>
Subtotal: 3						148,797	67,260	0			
Electrical and Computer Eng'g.	Huang, X.		REU: A Universal Cooperative Communication System-On-a-Chip	NSF		6,000	0		Supplement	Education/ Training	<a href="#">07142s1</a>
	Michalson, W.		PCOG Broadband Modem	Powerwave Cognition, Inc.		50,524	0	465	New	Other	<a href="#">9225</a>
Subtotal: 2						56,524	0	465			
Mathematical Sciences	Weekes, S.	Wilbur, J.	REU Site: Research Experiences for Undergraduates in Industrial Mathematics and Statistics	NSF		83,214	6,577		Con't.	Education/ Training	<a href="#">7035</a>
Subtotal: 1						83,214	6,577	0			
Mechanical Engineering	Sullivan, J.		Alternative Breast Cancer Imaging Modalities	Dartmouth College	DHHS	65,595	0		Con't.	Research	<a href="#">7024</a>
	Demetriou, M.	Gatsonis, N.	Integration of Model-Based Estimation Theory with an Adaptive Finite Volume Method for the Detection of a Moving Gaseous Source via a Mobile Sensor	Air Force		103,355	0	21,631	New	Research	<a href="#">9216</a>
Subtotal: 2						168,950	0	0			
 <b>Total: 10</b>						<b>943,954</b>	<b>73,837</b>	<b>465</b>			

**Worcester Polytechnic Institute  
Awards Received by Department (FY 2009)**

Date: **May 2009**

Fiscal Year: **2008-2009**

	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09	Cumulative
<b>Biology and Biotechnology</b>	1 293,745	2 21,269	1 12,289				2 18,684	2 152,483					8 498,470
<b>Biomedical Engineering</b>	2 164,980	1 2,000		1 16,488	2 130,000			1 27,202	1 219,526				8 560,196
<b>Bioengineering Institute</b>		1 150,000					1 29,924						2 179,924
<b>Civil and Envir Engr</b>				1 42,000									1 42,000
<b>Chemistry and Biochemistry</b>	1 169,933					1 51,565			3 535,553				5 757,051
<b>Chemical Engineering</b>	2 278,341		1 128,000	1 6,114			1 34,642		1 218,032		2 486,469		8 1,151,598
<b>Computer Science</b>	3 777,475	4 514,681						1 393,496	2 28,649	1 413,914	3 148,797		14 2,277,012
<b>Electrical and Computer Engr</b>		3 343,814	4 648,209	4 279,616	2 311,696	4 142,224	1 79,962	2 53,900			2 56,524		22 1,915,945
<b>Fire Protection Engineering</b>	3 247,099					1 15,843				2 230,080			6 493,022
<b>Humanities and Arts</b>													0 0
<b>Interdisciplinary and Global</b>		2 42,475							1 137,749				3 180,224
<b>Mathematical Science</b>		2 361,037						1 30,935	2 411,750		1 83,214		6 886,936
<b>Mechanical Engineering</b>	3 132,367		4 199,600	3 83,400	1 4,642	1 30,000	1 10,000	4 203,381	3 276,600	2 613,727	2 168,950		24 1,722,667
<b>Management</b>		1 7,000	1 749,985	1 42,592									3 799,577
<b>Social Science &amp; Policy Studies</b>													0 0
<b>Physics</b>		1 233,194	1 53,594			1 33,302				1 7,715			4 327,805
<b>Other</b>			1 9,000	2 124,852	1 66,000			1 9,109	2 120,411	1 18,000			8 347,372
<b>SUBTOTALS</b>	15 \$2,063,940	17 \$1,675,470	13 \$1,800,677	13 \$595,062	6 \$512,338	8 \$272,934	6 \$173,212	12 \$870,506	15 \$1,948,270	7 \$1,283,436	10 \$943,954	0 \$0	122 \$12,139,799
<b>Add: Earmarks</b>													0 \$0
<b>TOTALS</b>	15 \$2,063,940	17 \$1,675,470	13 \$1,800,677	13 \$595,062	6 \$512,338	8 \$272,934	6 \$173,212	12 \$870,506	15 \$1,948,270	7 \$1,283,436	10 \$943,954	0 \$0	122 \$12,139,799

**Worcester Polytechnic Institute  
Awards Received by Department (FY 2008)**

Date: **May 2009**

Fiscal Year: **2007-2008**

	Jul-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Cumulative
<b>Biology and Biotechnology</b>							1	1	1	2	1		6
							212,112	74,237	295,385	60,000	122,231		763,965
<b>Biomedical Engineering</b>		2				1	1	1					5
		223,880				59,299	2,191	24,527					309,897
<b>Bioengineering Institute</b>													0
													0
<b>Civil and Envir Engr</b>		1	1							1	1		4
		61,960	10,125							88,372	150,000		310,457
<b>Chemistry and Biochemistry</b>		1						1		1			3
		60,005						55,646		180,000			295,651
<b>Chemical Engineering</b>	2	1				1	3	1	1		2		11
	284,900	380,048				10,000	256,615	49,936	5,000		475,001		1,461,500
<b>Computer Science</b>	2	1	1	2	1		1	1	2	1	1		13
	572,896	13,500	19,500	176,863	95,492		15,000	25,000	413,731	58,635	122,785		1,513,402
<b>Electrical and Computer Engr</b>	2	3	1	2			3	1		1	2		15
	220,926	1,275,169	79,127	51,000			223,889	42,936		11,980	112,000		2,017,027
<b>Fire Protection Engineering</b>				1				1	1		1		4
				282,517				19,867	14,000		7,515		323,899
<b>Humanities and Arts</b>													0
													0
<b>Interdisciplinary and Global</b>	1	1											2
	60,733	6,000											66,733
<b>Mathematical Science</b>		2		1				1	2	1			7
		155,204		37,321				30,109	450,528	62,712			735,874
<b>Mechanical Engineering</b>	3	1	4	1	1	4	3	1	1		2		21
	183,071	60,000	298,900	107,000	15,000	169,482	173,051	34,000	70,000		10,000		1,120,504
<b>Management</b>													0
													0
<b>Social Science &amp; Policy Studies</b>		1											1
		675,888											675,888
<b>Physics</b>		2			1		1	1	1		1		7
		210,000			30,001		29,665	59,997	31,168		7,615		368,446
<b>Other</b>	1		4	1						1			7
	66,212		842,525	14,000						1,000			923,737
<b>SUBTOTALS</b>	<b>11</b>	<b>16</b>	<b>11</b>	<b>8</b>	<b>3</b>	<b>6</b>	<b>13</b>	<b>10</b>	<b>9</b>	<b>8</b>	<b>11</b>	<b>0</b>	<b>106</b>
	<b>\$1,388,738</b>	<b>\$3,121,654</b>	<b>\$1,250,177</b>	<b>\$668,701</b>	<b>\$140,493</b>	<b>\$238,781</b>	<b>\$912,523</b>	<b>\$416,255</b>	<b>\$1,279,812</b>	<b>\$462,699</b>	<b>\$1,007,147</b>	<b>\$0</b>	<b>\$10,886,980</b>
<b>Add: Earmarks</b>			1							1			2
			839,000							848,000			\$1,687,000
<b>TOTALS</b>	<b>11</b>	<b>16</b>	<b>12</b>	<b>8</b>	<b>3</b>	<b>6</b>	<b>13</b>	<b>10</b>	<b>9</b>	<b>9</b>	<b>11</b>	<b>0</b>	<b>108</b>
	<b>\$1,388,738</b>	<b>\$3,121,654</b>	<b>\$2,089,177</b>	<b>\$668,701</b>	<b>\$140,493</b>	<b>\$238,781</b>	<b>\$912,523</b>	<b>\$416,255</b>	<b>\$1,279,812</b>	<b>\$1,310,699</b>	<b>\$1,007,147</b>	<b>\$0</b>	<b>\$12,573,980</b>

**Worcester Polytechnic Institute**  
**Awards Received by Department (12 Month Report Through April 2009)**

Date: **May 2009**

Fiscal Year: **2008-2009**

	Jun-08	Jul-09	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Cumulative
<b>Biology and Biotechnology</b>	1 6,125	1 293,745	2 21,289	1 12,289				2 18,684	2 152,483				9 504,615
<b>Biomedical Engineering</b>	2 130,000	2 164,980	1 2,000		1 16,488	2 130,000			1 27,202	1 219,526			10 690,196
<b>Bioengineering Institute</b>			1 150,000					1 29,924					2 179,924
<b>Civil and Envir Engr</b>					1 42,000								1 42,000
<b>Chemistry and Biochemistry</b>		1 169,933					1 51,565			3 535,553			5 757,051
<b>Chemical Engineering</b>	1 33,514	2 278,341		1 128,000	1 6,114			1 34,642		1 218,032		2 486,469	9 1,185,112
<b>Computer Science</b>	3 380,437	3 777,475	4 514,681						1 393,496	2 28,649	1 413,914	3 148,797	17 2,657,449
<b>Electrical and Computer Engr</b>	3 346,479		3 343,814	4 648,209	4 279,616	2 311,696	4 142,224	1 79,962	2 53,900			2 56,524	25 2,262,424
<b>Fire Protection Engineering</b>		3 247,099					1 15,843				2 230,080		6 493,022
<b>Humanities and Arts</b>													0 0
<b>Interdisciplinary and Global</b>			2 42,475							1 137,749			3 180,224
<b>Mathematical Science</b>			2 361,037						1 30,935	2 411,750		1 83,214	6 886,936
<b>Mechanical Engineering</b>	3 108,844	3 132,367		4 199,600	3 83,400	1 4,642	1 30,000	1 10,000	4 203,381	3 276,600	2 613,727	2 168,950	27 1,831,511
<b>Management</b>	1 87,000		1 7,000	1 749,985	1 42,592								4 886,577
<b>Social Science &amp; Policy Studies</b>													0 0
<b>Physics</b>	2 35,625		1 233,194	1 53,594			1 33,302				1 7,715		6 363,430
<b>Other</b>	1 69,993			1 9,000	2 124,852	1 66,000			1 9,109	2 120,411	1 18,000		9 417,365
<b>SUBTOTALS</b>	17 \$1,198,017	15 \$2,063,940	17 \$1,675,490	13 \$1,800,677	13 \$595,062	6 \$512,338	8 \$272,934	6 \$173,212	12 \$870,506	15 \$1,948,270	7 \$1,283,436	10 \$943,954	139 \$13,337,836
<b>Add: Earmarks</b>	1 \$860,000												1 \$860,000
<b>TOTALS</b>	18 \$2,058,017	15 \$2,063,940	17 \$1,675,490	13 \$1,800,677	13 \$595,062	6 \$512,338	8 \$272,934	6 \$173,212	12 \$870,506	15 \$1,948,270	7 \$1,283,436	10 \$943,954	140 \$14,197,836